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ESULTS OF AN INVESTIGATION TO VERIFY SHUTTLE ORBITER
AERO-CHARACTERISTICS AND EXAMINE TRANSONIC BLOCKAGE
ND SHOCK REFLECTION EFFECTS UTILIZING AN .05-SCALE
HI-FIDELITY REMOTE CONTROL MODEL (39-0) IN THE
NGLEY RESEARCH CENTER 16-FOOT TRANSONIC WIND TUNNEL
(OA270A)

SPACE SHUTTLE AEROTHERMODYNAMIC DATA REPORT

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HUNTSVILLE ELECTRONICS DIVISION CHRYSLER CORPORATION

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VOLUME 1 of 3

RESULTS OF AN INVESTIGATION TO VERIFY SHUTTLE ORBITER AERO-CHARACTERISTICS AND EXAMINE TRANSONIC BLOCKAGE AND SHOCK REFLECTION EFFECTS UTILIZING AN .05-SCALE HI-FIDELITY REMOTE CONTROL MODEL (39-0) IN THE LANGLEY RESEARCH CENTER 16-FOOT TRANSONIC WIND TUNNEL (OA270A)

by

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Prepared under NASA Contract Number NAS9-13247

by

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Chrysler Huntsville Electronics Division/Slidell Engineering Office
New Orleans, La. 70189

for

Engineering Analysis Division

Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Number:	LARC 16TT 326
NASA Series Number:	OA270A
Model Number:	39-0
Test Dates:	May 15, 1978 through June 9, 1978
Occupancy:	320 Hours

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RESULTS OF AN INVESTIGATION TO VERIFY SHUTTLE ORBITER AERO-CHARACTERISTICS AND EXAMINE TRANSONIC BLOCKAGE AND SHOCK REFLECTION EFFECTS UTILIZING AN .05-SCALE HI-FIDELITY REMOTE CONTROL MODEL (39-0) IN THE LANGLEY RESEARCH CENTER 16-FT. TRANSONIC WIND TUNNEL OA270A

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ABSTRACT

This report documents the data obtained during wind tunnel test OA270A, a transonic verification test program run in the Langley Research Center 16-ft. transonic wind tunnel using a 5 percent scale hi-fidelity remote control model of the space shuttle orbiter.

The basic objectives of this program were to verify:

1. Longitudinal and lateral/directional force and moment characteristics
2. Control surface effectiveness and hinge moments
3. Examine the effect of tunnel blockage and shock reflections on the above characteristics

Testing was conducted over a Mach number range 0.6 to 1.3 with Reynolds numbers variations between 3.1 and 3.7 x 10^6 per foot. The test program included investigations to evaluate tunnel flow angularity and blockage. Mach ramps were run to help establish data validity near Mach 1.0, to compare with .02-scale model Mach ramp data OA270B/C and previously measured .05-scale data in the Ames 11-ft. transonic tunnel.

ABSTRACT (Concluded)

Control surface hinge moments were obtained from the integration of measured pressure data on all control surfaces.

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INTRODUCTION

An experimental investigation was performed to determine aerodynamic stability and control characteristics and control surface hinge moments on the OV102 configuration. The test article was an 0.05-scale representation of the SSV orbiter configuration (model 39-0). Tests were performed in the NASA/LaRC 16-ft. transonic wind tunnel. Nominal test conditions are given in Table I.

Six-component force data were measured on the complete model using the Rockwell International 4-inch Task MKVIA balance, sting mounted through the rear of the model. The model had a total of 234 pressure taps located as shown in Figures 2c through 2h. Control surface pressures were measured on the left hand elevon panels, the body flap and speed brake. These pressures were also integrated to obtain control surface hinge moments.

With the tunnel flowing, data were recorded through an angle-of-attack range from 0° to 20° and at angles-of-sideslip of 0° and 2°.

Control surfaces remotely actuated from the control room were: all four elevon panels, the body flap, and the rudder. Speed brake deflections were set manually using a pin indexing system on the rudder shaft.

The report consists of 3 volumes: 1 volume of plotted force data; 1 volume of plotted force data, plotted pressure data, and tabulated force data; and 1 volume of tabulated pressure data on microfiche. The volumes are arranged in the following manner:

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NOMENCLATURE

SYMBOL	MNEMONIC	DEFINITION
a		speed of sound; m/sec, ft/sec
A_{B_K}		fuselage base area assigned to pressure tap K, ft.^{2}
A_C		fuselage base sting cavity area, ft.^{2}
A_i		upper control surface area assigned to pressure tap i, in.^{2}
A_j		lower control surface area assigned to pressure tap j, in.^{2}
A_m		speed brake outer surface area assigned to pressure tap m, in.^{2}
A_n		speed brake inner surface area assigned to pressure tap n, in.^{2}
b_w		wind reference span, in. - used to nondimensionalize yawing and rolling moments
C_A	CA	axial-force coefficient; $\frac{\text{axial force}}{qS}$
C_{A_b}	CAB	base-force coefficient; $\frac{\text{base force}}{qS}$ $-A_b(p_b-p_\infty)/qS$
C_{AC}	CAC	sting cavity axial force coefficient - sting cavity pressure is adjusted to an average base pressure
C_{A_f}	CAF	forebody axial force coefficient, $C_A - C_{A_b}$
C_{AU}		axial force coefficient, unadjusted
c_{BF}		body flap reference chord length, in.
C_D	CD	drag coefficient; $\frac{\text{drag}}{qS}$
C_{D_b}	CDB	base-drag coefficient; $\frac{\text{base drag}}{qS}$
C_{D_f}	CDF	forebody drag coefficient; $C_D - C_{D_b}$

NOMENCLATURE (Continued)

SYMBOL	MNEMONIC	DEFINITION
c_E		elevon reference chord length, in.
c_{FD}		flipper door reference chord length, in.
$C_{h_{BF}}$	CHBF	body flap hinge moment coefficient
$C_{h_{EI}}$	CHEI	inboard elevon hinge moment coefficient
$C_{h_{EO}}$	CHEO	outboard elevon hinge moment coefficient
$C_{h_{FDI}}$	CHFDI	inboard flipper door hinge moment coefficient
$C_{h_{FDO}}$	CHFDO	outboard flipper door hinge moment coefficient
$C_{h_{SB}}$	CHSB	speed brake hinge moment coefficient
C_L	CL	lift coefficient; $\frac{\text{lift}}{qS}$
C_ℓ	CBL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qSb}$
C_m	CIM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS\ell_{REF}}$
C_n	CYN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qSb}$
C_N	CN	normal-force coefficient; $\frac{\text{normal force}}{qS}$
C_p	CP	pressure coefficient; $(p_1 - p_\infty)/q$
c_W		wing reference MAC, in.
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
DA	AILRON	aileron deflection - positive when L.H. elevon is more trailing edge down than R.H. elevon, degrees
D_{BF}	BDFLAP	body flap deflection - positive trailing edge down, degrees

NOMENCLATURE (Continued)

SYMBOL	MNEMONIC	DEFINITION
D_E	ELEVON	elevon deflection, average of the four individual panel deflections - positive trailing edge down, degrees
DELI,O	ELV-IB ELV-OB	inboard and outboard L.H. elevon deflections, degrees
DELL		differential elevon setting, left side, outboard-inboard, degrees
DELR		differential elevon setting, right side, outboard-inboard, degrees
DERI,O	ELV-RI ELV-RO	inboard and outboard R.H. elevon deflections, degrees
DR	RUDDER	rudder deflection in a water plane - positive trailing edge left, degrees
DRHL	DRHL	rudder deflection normal to the hinge line - positive trailing edge left, degrees
DSB	SPDBRK	speed brake deflection - angle between the inside faces of the left and right panels, always positive, degrees
H_{mBF}		body flap hinge moment, in-lbs
H_{mEI}		inboard elevon hinge moment, in-lbs
H_{mEO}		outboard elevon hinge moment, in-lbs
H_{MFDI}		inboard flipper door hinge moment, in.lbs
H_{MFDO}		outboard flipper door hinge moment, in.lbs
H_{MSB}		speed brake hinge moment, in-lbs
lB	LREF	orbiter body reference length, in.
L/D	L/D	lift-to-drag ratio; C_L/C_D
L/D_f	L/DF	lift-to-forebody drag ratio; C_L/C_{Df}
M	MACH	Mach number; V/a

NOMENCLATURE (Continued)

SYMBOL	MNEMONIC	DEFINITION
p		pressure; N/m^2, psf
$P_{i,j,m,n}$		control surface static pressure corresponding to tap i, j, m or n, psfa
P_o		freestream static pressure psfa
q	Q(NSM) Q(PSF)	dynamic pressure; $1/2\rho V^2$, N/m^2, psf
RN/L	RN/L	unit Reynolds number; per m, per ft
S_{BF}		body flap reference area, $in.^2$
S_E		elevon reference area, $in.^2$
S_{FD}		flipper door reference area, $in.^2$
S_{SB}		speed brake reference area, $in.^2$
S_w	SREF	wing reference area, $ft.^2$
V		velocity; m/sec, ft/sec
X_{CG}		distance from orbiter nose (IML) to model moment reference center, in.
X_{CP}	XCP/L	model center of pressure location in the normal force direction, relative to the model nose (IML), in.
$X_{i,j,m,n}$		transfer distance from static pressure tap i, j, m or n to the corresponding control surface hinge line, in.
α	ALPHA	angle-of-attack, degrees
β	BETA	angle-of-sideslip, degrees
ψ	PSI	angle of yaw, degrees
ϕ	PHI	angle of roll, degrees
ρ		mass density; kg/m^3, $slugs/ft^3$

NOMENCLATURE (Concluded)

SYMBOL	MNEMONIC	DEFINITION
$\Delta C_y/\Delta\beta$	DCY/DB	side-force derivative with respect to beta
$\Delta C_\ell/\Delta\beta$	DCBLDB	rolling-moment derivative with respect to beta
$\Delta C_\eta/\Delta\beta$	DCYNDB	yawing-moment derivative with respect to beta
$\Delta C_y/\Delta_{\delta a}$	DCY/DA	side-force derivative with respect to aileron deflection
$\Delta C_\ell/\Delta_{\delta a}$	DCBLDA	rolling-moment derivative with respect to aileron deflection
$\Delta C_\eta/\Delta_{\delta a}$	DCYNDA	yawing-moment derivative with respect to aileron deflection
$\Delta C_y/\Delta_{\delta r}$	DCY/DR	side-force derivative with respect to rudder deflection
$\Delta C_\ell/\Delta_{\delta r}$	DCBLDR	rolling-moment derivative with respect to rudder deflection
$\Delta C_\eta/\Delta_{\delta_r}$	DCYNDR	yawing-moment derivative with respect to rudder deflection
$\Delta_{\delta a}$	DAILRN	incremental aileron deflection between two datasets
$\Delta_{\delta r}$	DRUDDR	incremental rudder deflection between two datasets
X_{BF}/C_B	XBF/CB	chordwise distance aft of body flap hinge line as a fraction of body flap chord
X_e/C_e	XE/CE	chordwise distance aft of elevon hinge line as a fraction of local elevon chord
X_F/C_F	XF/CF	chordwise distance aft of flipper door hinge line as a fraction of local flipper door chord
X_R/C_R	XR/CR	chordwise distance aft of rudder hinge line as a fraction of local rudder chord
η_{BF}	YBF/BB	spanwise distance from body flap left edge as a fraction of body flap span at hinge line

NOMENCLATURE (Concluded)

SYMBOL	MNEMONIC	DEFINITION
η_W	ZY/BW	distance from plane of symmetry as a fraction of wing semi-span
η_R	ZR/BR	spanwise distance from rudder bottom edge as a fraction of rudder span on hinge line
C_{PBi}	CPB1→10	base pressure coefficients 1 through 10
C_{Pc}	CPC	cavity pressure coefficient
$\bar{C}$	CW	wing reference mean aerodynamic chord, in.

REMARKS

The OA270 test program was originally planned as a two part test program to compare transonic blockage effects on two different size models. Stability and control data and hinge moments were to be compared using a .05-scale model (39-0) OA270A, with data from a .02-scale model (104-0) OA270B. However, during the pretest calibrations it was discovered that the elevon hinge moment beams of the model (104-0) were more flexible than first anticipated. In order not to apply flexibility corrections to the force data of OA270B, a third model (105-0) was brought into the test program on which to perform the rigid model stability and control tests. All three models are hi-fidelity models built to the identical 14414.1C/C trajectory numerical control lines. Model 104-0 then became the hinge moment model and test OA270C was run to measure the hinge moment data for comparison with the .05-scale model data. Extensive elevon calibrations were performed prior to testing to obtain the elevon deflection characteristics, and the final test data were corrected for deflection under load and gauge temperature compensation. In order to make the hinge moment comparisons meaningful the .05-scale model elevons had to be set to the 104-0 model deflection, as deflected under load. This became a tedious procedure, and would have been impossible had the 39-0 model not been a remote control model. All four elevon deflections had to be set for every test point for all alpha sweeps and Mach ramps.

Various scanivalve anomalies during the OA270A program necessitated rerunning several configurations to insure a reliable set of hinge moment

data. To this end LaRC personnel have reviewed the various sets of repeat pressure data and have determined that the pressure data for Runs 1 through 50 are questionable or invalid. On Runs 51 through 60 and 65 through 76 the pressure data for scanivalves 8 through 10 are invalid. Runs 61 through 64 and 77 through 83 pressure data for all scanivalves are invalid. The remainder of the pressure data through Run 110 are good. After Run 110 the scanivalves were disconnected for the remainder of the test program. Only base pressures measured on individual transducers located in the tunnel strut were recorded after Run 110.

Individual pressure taps that were plugged or reading bad for some reason were flagged in the final data and appear as -999 in the final tab data listings.

Aerodynamic coefficient data presented between freestream Mach numbers of about 0.98 and 1.07 may be suspect. Measured aerodynamic characteristics are affected by tunnel wall blockage and/or reflected shock waves. Therefore, data in this Mach range should be used with caution for diagnostic analysis only.

CONFIGURATIONS INVESTIGATED

The test article (provided by Rockwell) was an 0.05-scale model 39-0 defined by VC70-000002B configuration control drawing and was fabricated to the March 15, 1976 trajectory 14414.1C/C Numerical Control Lines.

The model was constructed primarily of 6061-T6 aluminum alloy and Armco 17-4 stainless steel. The balance block, wing panels and elevons, vertical tail and speed brakes, and body flap are the principal steel components. The fuselage is all aluminum.

The model was tested in the above fixed configuration. Boundary layer trips defined below were employed for all testing. The only configuration variables were model orientation and control surface deflection. The following range of control surface deflections were tested and controlled remotely from the control room: Elevon deflections of -20° to $+20^{\circ}$, body flap deflections of 0 and rudder deflections from -5 to +5. Speed brake deflections of 25° and 55° were set manually.

The following nomenclature was used to designate the model components:

Component	Definition
B_{75}	OV102 fuselage including T-zero umbilical panels, crew hatch, and cargo bay door gaps.
C_{16}	Canopy including recessed windshields and observation windows.
E_{64}	Elevons, including elevon/elevon and elevon/fuselage gaps.
F_{16}	Body flap.

CONFIGURATIONS INVESTIGATED (Continued)

Component	Definition
FD_3	Flipper doors.
FR_{22}	Fairings for the forward cargo bay door hinges, 6 per side.
HG_1	Cargo bay door hinges, 13 per side.
M_{52}	OMS pods.
N_{108}	Forward RCS thruster nozzle ports.
N_{109}	Main propulsion system nozzles (inner surfaces cut away for sting clearance).
N_{110}	OMS nozzles.
N_{111}	Aft RCS thruster nozzles and ports.
R_{20}	Rudder, split into left and right speed brake panels.
V_{27}	Vertical tail.
VT_{10}	Cargo bay vents, 4 per side.
VT_{11}	Wing/landing gear bay vents, 1 per side.
VT_{12}	Cabin vents, 1 per side.
VT_{13}	Forward RCS vents, 1 per side.
VT_{14}	Aft fuselage vents, 1 per side.
VT_{15}	OMS RCS vents, 1 per side.
VT_{16}	Flipper door vents.
VT_{17}	Miscellaneous vents, ports and penetrations.
W_{131}	OV102 wing.

CONFIGURATIONS INVESTIGATED (Concluded)

TRIP STRIP DEFINITION

Location	Dist. aft L.E. (⊥ to L.E.)	Grit Size	Width
Wing	0.8"	90	.10
Fuselage	2.8"	100	.10
Vertical Tail	.8"	90	.10
OMS pods	2.8"	100	.10

INSTRUMENTATION

The test was conducted with the following model instrumentation:

1. 4.0-inch Task MKVIA, 6-component internal balance.
2. 10 Scanco S-type, 48-port scanivalves for model pressures. 8 individual transducers for sting pressures.
3. 10 wing and 105 elevon static pressure taps.
4. 32 flipper door static pressure taps,
5. 4 aft fuselage and 19 body flap static pressure taps.
6. 5 vertical tail and 46 speed brake static pressure taps.
7. 9 fuselage base and 2 balance cavity static pressure taps.
8. 2 air data probe forward fuselage flush static pressure taps.
9. 8 sting static pressure taps.

Six model control surfaces were remotely actuated. Included were the following instrumentation:

1. Hydraulic actuation systems for the four elevon panels and the body flap.
2. Electric motor actuation system for the rudder.
3. Angular position pots for each of the control surfaces.
4. A model mounted hydraulic supply system, including pump, and servo-control valves.
5. A model control console housing the electrical components of the servo systems.

Force data for the orbiter was measured by a six-component balance, sting mounted through the rear of the model. The primary balance for this test was the Rockwell International 4-inch Task MKVIA and the back-up balance was the Ames 4-inch Task MKIV.

The model was instrumented with a total of 234 static pressure taps. These pressures were measured by 10 model mounted S-type scanivalves provided by Rockwell International, BCM type position transducers were provided by LaRC.

The sting was instrumented with 8 static pressure taps, 4 each top and bottom spaced every 10" aft of the base. These pressures were measured by 8 individual transducers mounted in the tunnel strut BOR.

All pressure instrumentation electrical leads except position transducer cables were supplied by Rockwell International. LaRC provided reference, calibrate, and backing pressure tubes from their source to the aft end of the model. The routing of all instrumentation leads was internal to the sting, except for the sting static taps.

The locations and tap identification numbers of all orifices are shown in Tables III through VI and Figures 2c through 2h.

Tunnel tank static pressure, measured in the test section plenum, was used as the reference pressure for all scanivalves. Atmosphere was used for calibrate pressure.

The 4 elevon panels and the body flap were remotely controlled using a model mounted hydraulic servo control system. The hydraulic system consisted of a 1 H.P. DC motor, pump and reservoir, Moog Type 30 servovalves, and Oildyne Style A hydraulic cylinders. The electrical components of the servo-system, the operational amplifiers and balancing pots, were contained in a model control console located in the control

room.

The rudder panels were remotely controlled using a Globe planetary gear motor, Type 8L. An electrical servo system for the rudder, utilizing a Moog amplifier, was built into the model control console.

Control surface angular position was read by rotary pots located as closely as possible to each surface hingeline. The pots for the inboard elevon panels and the body flap were 7/8-inch Beckman Helipots, model 6173 single turn, dual element. The pots for the outboard elevons and rudder panels were 1/2-inch Markite Series BM05 pots, also single turn, dual element.

The dual outputs from each pot allowed one output to be utilized as the feedback element in the control servo loop, with the second output being used to set control position and compute surface positions in the data reduction program.

The model control console was operated manually. Unbalancing of the servo to set a given control deflection was accomplished by manually turning the Helipots on the control console. The position of each control surface was read by separate digital voltmeters mounted on the console.

TEST FACILITY DESCRIPTION

The Langley 16-Foot Transonic Tunnel is a single return, atmospheric wind tunnel with an air exchange for cooling. The air exchange tower has adjustable intake and exit valves to provide a small amount of control over the tunnel air temperature. The maximum amount of air exchange is approximately 20%. The tunnel is powered by two counter-rotating fans, 34 feet in diameter, each driven by a 30,000 horsepower electric motor. The fan blades have fixed pitch but their rotational speed can be varied from 0 to 366 rpm by use of a variable frequency power supply to the drive motors.

The test section is 22 feet long with a 15.5 feet wide octagonal cross-section. Each corner of the octagon has a longitudinal slot. The slots terminate at the diffuser entrance. The test section and model support system are enclosed in a cylindrical tank 32 feet in diameter by 52 feet long. Wall divergence angle can be remotely varied from 0° to 0.8°.

Test section freestream conditions vary over the following nominal ranges:

Stagnation pressure	atmospheric
Stagnation temperature, $^{\circ}R$	510 to 650
Unit Reynolds number, million per foot	1.2 to 3.7
Mach number	0.2 to 1.3
Dynamic pressure, psf	58 to 830

TEST FACILITY DESCRIPTION (Concluded)

Models are mounted on a sting support system consisting of a 14-inch diameter cylindrical body (onto which the sting mounts) supported on a vertical strut cantilevered from a circular track under the tunnel floor. The strut rotates to vary model angle-of-attack from -5° through 15° (with a straight sting). The center of rotation is at tunnel station 134 (92.25 inches upstream of the cylindrical body) on the tunnel centerline. This point is at the center of the tunnel window. The strut does not rotate in roll or yaw.

Model forces and moments are measured by balances internally mounted in the model. Force, pressure, and temperature data are recorded on magnetic tape at a remote site using a Beckman 210 system. The system can simultaneously record 99 analog channels of data. Data sampling rate can be varied. An average of multiple samples is normally used for data reduction. Data are reduced using a CDC 6600 series digital computer.

A shadowgraph system, utilizing divergent light from a high pressure mercury lamp is available. The light rays pass through the tunnel flow field onto the opposite tunnel wall, which serves as a screen. The resulting shadow is photographed with a camera utilizing an f2.5 lens at a shutter speed of 1/150 second.

DATA REDUCTION

Model force and moment data was reduced to coefficient form in both body and stability axes systems. Moment data was reduced about a moment reference center corresponding to 65% of the reference body length at W.L. 375. Model angle-of-attack and sideslip were corrected for support hardware deflections and tunnel flow angularity. Angle-of-attack flow angularity was determined from upright and inverted model runs performed during the conduct of the test. Standard facility corrections were applied as required. All model pressure data was reduced to the pressure coefficient form $(P-P_o)/q$.

Six-component body axes data was computed from balance outputs with axial force being adjusted for the differences between the average sting cavity pressure and an average base pressure.

$$C_A = C_{A_U} - C_{A_C}$$

where:

$$C_{A_C} = -(C_{P_{Cavg.}} - C_{P_{Bavg.}}) \frac{(A_c)}{S_w}$$

$$C_{P_{Cavg.}} = \frac{C_{P10} + C_{P11}}{2}$$

$$C_{P_{Bavg.}} = \frac{(C_{P1} + C_{P2} + C_{P5} + C_{P6} + C_{P7} + C_{P8})}{6}$$

Forebody axial force coefficients were computed by adjusting the base pressure to freestream.

$$C_{A_F} = C_A - C_{A_B}$$

where:

$$C_{A_B} = \frac{-1}{SW}\left[\sum_{K=1}^{9} (C_{P_K} A_{B_K}) + C_{P_{Bavg.}} A_C)\right]$$

Center-of-pressure location of the model normal force was computed as a ratio to the reference body length.

$$\frac{X_{C_P}}{lB} = \frac{1}{lB}\left(X_{CG} - \frac{C_m}{C_N}\bar{c}\right)$$

Stability axes coefficients C_L and C_D were computed from body axes coefficients C_N and C_A. Model lift-to-drag ratio was then computed from C_L and C_D.

$$L/D = C_L/C_D$$

Model control surface positions from the run schedule were input to the controller manually, i.e., constant or variable values were input depending on the sweep variable for the given run. Table look up values of δ_e, δ_{BF}, and δ_A, based on calibration data, were stored in the data reduction program and employed to determine control surface position from the actual set values of controller voltages input to the ARC instrumentation system.

Model control surface hinge moments (on line data only) were computed by the facility from control surface pressures using an area-moment arm method as detailed below:

$$H_{MEI} = \sum_{I=101}^{124} |(P_i)\ (A_i)\ (x_i)| - \sum_{J=150}^{173,\ 94,\ 95,\ 198,\ 199} |(P_j)\ (A_j)\ (x_j)|$$

$$C_{HEI} = \frac{H_{MEI}}{qS_E C_E}$$

$$H_{MEO} = \sum_{i=125}^{149} \left[(P_i)\ (A_i)\ (x_i)\right] - \sum_{J=174}^{197,\ 96\text{-}100} \left[(P_j)\ (A_j)\ (x_j)\right]$$

$$C_{HEO} = \frac{H_{MEO}}{qS_E C_E}$$

Inboard flipper door

$$H_{MFDI} = \sum_{i=201}^{212} \left[(P_i)\ (A_i)\ (x_i)\right] - \sum_{j=225}^{234} \left[(P_j)\ (A_j)\ (x_j)\right]$$

$$C_{h_{FDI}} = \frac{H_{MFDI}}{qS_{FD} C_F}$$

Outboard flipper door

$$H_{MFDO} = \sum_{i=213}^{224} \left[(P_i)\ (A_i)\ (x_i)\right] - \sum_{j=237}^{246} \left[(P_j)\ (A_j)\ (x_j)\right]$$

$$C_{h_{FDO}} = \frac{H_{MFDO}}{qS_{FD} C_F}$$

Body flap hinge moments

$$H_{MBF} = \sum_{i=301}^{307} \left[(P_i)\ (A_i)\ (x_i)\right] - \sum_{j=314}^{325} \left[(P_j)\ (A_j)\ (x_j)\right]$$

$$C_{h_{BF}} = \frac{H_{MBF}}{qS_{BF} C_B}$$

where:

i = upper surface pressure tap numbers

j = lower surface pressure tap numbers

Speed brake hinge moments

$$H_{MSB} = \sum_{m=410}^{436} (P_m)\ (A_m)\ (x_m) - \sum_{n=437}^{454} (P_n)\ (A_n)\ (x_n)$$

$$C_{h_{SB}} = \frac{H_{MSB}}{qS_{SB}C_{SB}}$$

where:

m = outer surface pressure tap numbers

n = inner surface pressure tap numbers

Pressure coefficients judged to be incorrect were deleted and areas reassigned by manual input to the on-line computer program.

Inboard and outboard elevon hinge moments were also calculated by DATAMAN by integration of smoothed pressure coefficient data. These are documented separately as special request SPRT9K.

Reference dimensions and constants used were:

SYMBOL	DESCRIPTION	MODEL SCALE	FULL SCALE
S_w	Wing reference area, ft.^{2}	6.725	2690.
b_w	Wing reference span, in.	46.834	936.68
c_w	Wing reference MAC, in.	23.740	474.81
MRC	Moment Reference Center		
	X, in.	53.834	1076.68
	Y, in.	0.0	0.0
	Z, in.	18.75	375.0

DATA REDUCTION (Concluded)

SYMBOL	DESCRIPTION	MODEL SCALE	FULL SCALE
X_{CG}	Length, nose IML to MRC, in.	41.934	383.68
lB	Body reference length, in.	64.515	1290.3
SE	Elevon reference area, in.^{2}	75.60	30240.
c_E	Elevon reference chord, in.	4.535	90.7
S_{FD}	Flipper door reference area, in.^{2}	75.60	30240.
c_F	Flipper door reference chord, in.	4.535	90.7
S_{BF}	Body flap reference area, in.^{2}	48.60	19440.
c_B	Body flap reference chord, in.	4.050	81.0
SSB	Speed brake reference area, in.^{2}	36.05	14421.6
c_{SB}	Speed brake reference chord, in.	3.660	73.2
A_C	Base sting cavity area, ft.^{2}	0.1963	
A_{B1}	Base area, Tap 1, ft.^{2}	0.0587	
A_{B2}	Base area, Tap 2, ft.^{2}	0.0824	
A_{B3}	Base area, Tap 3, ft.^{2}	0.0467	
A_{B4}	Base area, Tap 4, ft.^{2}	0.0553	
A_{B5}	Base area, Tap 5, ft.^{2}	0.0772	
A_{B6}	Base area, Tap 6, ft.^{2}	0.1146	
A_{B7}	Base area, Tap 7, ft.^{2}	0.1798	
A_{B8}	Base area, Tap 8, ft.^{2}	0.0860	
A_{B9}	Base area, Tap 9, ft.^{2}	0.1950	

REFERENCES

1. SD76-SH-0189 "Pretest Information for Test OA270A of a .05-Scale Model (39-0) of the SSV Orbiter 102 in the NSAS/LaRC 16-Foot Transonic Wind Tunnel," dated February 10, 1978.

2. Report NA76-662, "Structural Analysis for the 0.05-Scale SSV Orbiter Verification Model 39-0."

3. Rockwell Internal Letter SAS/AERO/77-038, "Model Readiness Review Model 39-0," dated December 20, 1976.

TABLE I.

TEST : 0A270A

DATE : June 1978

TEST CONDITIONS

MACH NUMBER	REYNOLDS NUMBER (per unit length)	DYNAMIC PRESSURE PSF	STAGNATION TEMPERATURE (degrees Fahrenheit)
.60	3.1	420	
.80	3.6	622	
.90	3.7	711	
.95		750	
.98		770	
1.05		815	
1.1		840	
1.2		880	
1.3		910	

BALANCE UTILIZED: 4 INCH TASK MKVIA

	CAPACITY:	ACCURACY:	COEFFICIENT TOLERANCE:
NF	6000/6000	.5%	*
SF	3000/3000	.5%	
AF	2500	.2%	
PM	16,000	.5%	
RM			
YM			

COMMENTS: Accuracy applies to maximum gauge capacity.

* Coefficient tolerance based on root sum square of FWD and AFT gauges, tolerances quoted are for the range of dynamic pressure tested. See Table VII.

IMS 010

TABLE II. DATA SET/RUN COLLATION SUMMARY

TEST: LARC 16' TWT (ØA270A)

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 7-28-78 REV. C

DATA SET IDENTIFIER	CONFIGURATION	PARAMETERS/VALUES α	β	δ_e	δ_a	δ_{BF}	δ_{SB}	δ_R	ø	MACH NUMBERS .6	.8	.9	.95	.98	1.05	1.10	1.20	1.30
RKN001	ORBITER-INVERTED	FC	0	0	0	0	25	0	180	138	137	136	135	134	133	132	131	130
02	ORBITER	A		-5					0				73*		67*			54*
03													93•		86•			50▲
04				↓									106•		101•			
05				0								75*	71*	72*	68*	66*	65*	56*
06												97•	94•	92	87•	85•	90•	40■
07												109•	107•	105•	102•	100•	99•	84•
08				↓										91•	60*▲			
09				5									74*		70*			59*
10													96•		89•			
11		↓	↓	↓									108•		104•			
12		B	2	-5						154		150	147					140
13				0						155	153	151	148	146	145	144	143	141
14		↓	↓	5						156□		152	149					142
15		A	0	-5						55*	64	61	114					111
17		FC		0						42	31*	2•	12•		36	38	34	33▼
↓ 18	↓	A	↓	0	↓	↓	↓	↓	↓					95•				

TEST RUN NUMBERS

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICIENT SCHEDULES SEE PAGE 39 MACH ALPHA 1.0

α or β SCHEDULES

COEFFICIENTS

α(A) = 0, 2.5, 5.0, 8.0, 10.0, 12.0, 15.0° α(B) = 0, 2.5, 5.0, 8.0, 10.0, 12.0° δ_a(F) = -5, -4, -3, -2, -1, 0, 2, 4, 5°

δ_e(E) = -20, -15, -12.5, -10, -5, -4, -2, -1, 0, 2, 4, 5, 10, 12.5, 15.0° M(M) = .6, .7, .8, .85, .90, .92, .95, .96, .98, 1.00, 1.02, 1.15, 1.20, 1.25, 1.28

IDVAR (1) IDVAR (2) NDS

• PRESSURE DATA AVAILABLE

* PARTIAL PRESSURE DATA AVAILABLE

▲ α = 0, 2.5, 5.0

■ α = FC

▼ α = 0, .5, 1.0, 1.5°

□ α = 0, 2.5, 5.0, 10

NASA-MSFC-MAF

TABLE II. DATA SET/RUN COLLATION SUMMARY (Continued)

TEST: LARC 16' TWT (ØA270A)

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 7-28-78 REV. C

DATA SET IDENTIFIER	CONFIGURATION	PARAMETERS/VALUES α	β	δ_e	δ_a	δ_{BF}	δ_{SB}	δ_R	Ø	MACH NUMBERS .6	.8	.9	.95	.98	1.05	1.10	1.20	1.30
RKNO19	ORBITER	Ⓐ	0	0	0	0	25	0	0					113				
20				0							NO DATA							
21				5						57*	63	62	115					112
23				-5	3					46	118							44
25				0						47	119							45
27				5						49	120							48
29				0	0			5		53*	117	116						58*
31							55	0				129	125	124				121
32							55	5				128	126	123				122
33		5		Ⓔ			25	0		51*	110°				103°	39	35	52*
34										43	32*				37			41
35											98°○				88°			
36											76*				69*			
37					3					30	28	26	24	22	20	18	16	14□
38				0	Ⓕ					29	27	25	23	21	19	17		13
39	M=.92						55					127						
40	M=.92						25					139						

TEST RUN NUMBERS

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICIENT SCHEDULES SEE PAGE 39

MACH ALPHA 1.0

α OR β SCHEDULES

○ δ_e = -20, -15, -12.5, -10°

□ δ_e = -20, -15, -12, -10, -5, -4, -2, -1, 0, 2, 4, 5, 10°

COEFFICIENTS

IDVAR (1) ELEVON AILRON NDV

NASA-MSFC-MAF

TABLE II. DATA SET/RUN COLLATION SUMMARY (Continued)

TEST: LARC 16' TWT (ØA270A)

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 7-28-78 REV. C

DATA SET IDENTIFIER	CONFIGURATION	PARAMETERS/VALUES M	β	δ_e	δ_a	δ_{BF}	δ_{SB}	δ_R	ϕ	α VALUES 0°	5°	10°
RKN041	ORBITER	M	0	0	0	0	25	0	0	4°	7°	11°
42					3			0			9°	
43					0			5			10°	
44			2					0			300	
45			0	-5							5°	
46				0							6°	
47				5							8°	

TEST RUN NUMBERS

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICIENT SCHEDULES SEE PAGE 39 ALPHA MACH 1.0

α OR β SCHEDULES — COEFFICIENTS — IDVAR (1) IDVAR (2) NDV

NASA-MSFC-MAF

TABLE II

FORCE DATA SETS

RKNO$$

MACH	ALPHA	BETA	CN	CA	CLM	CL	CD	CY	CYN	CBL	L/D
MACH	ELEVON	ALPHA									
MACH	AILRON	ALPHA									
ALPHA	MACH	BETA									

SKNO$$

CPB1 CPB2 CPB3 CPB4 CPB5 CPB6
CPB7 CPB8 CPB9 CPB10

BAD DATA FLAG - 999.00000

TKNO$$

CA CAB CAC CAF Q(PSI) XCP/L RN/L

UKNO$$

CHEI CHEO CHFDI CHFDO CHBF CHSB

VKNO$$

RUDDER BDFLAP ELV-RO ELV-RI ELV-LI

ELV-LO ELEVON AILRON

$$ = 01→15, 17→19, 21, 23, 25, 27, 29, 31→47

PRESSURE DATA SETS

RKN$XX

XX = 01→15, 17→19, 21, 23, 25, 27, 29, 31→47

Where $ =		1ST GEOMETRY	2ND GEOMETRY
"C"	INBD ELEVON LOWER	XE/CE	2Y/BW
"D"	OUTBD ELEVON LOWER	XE/CE	2Y/BW
"I"	INBD FLIPPER UPPER	2Y/BW	XF/CF
"J"	OTBD FLIPPER UPPER	2Y/BW	XF/CF
"K"	INBD FLIPPER LOWER	2Y/BW	XF/CF
"L"	OTBD FLIPPER LOWER	2Y/BW	XF/CF
"Q"	INBD ELEVON UPPER	2Y/BW	XE/CE
"R"	OTBD ELEVON UPPER	2Y/BW	XE/CE
"S"	BODY FLAP UPPER SURFACE	XBF/CB	YBF/BB
"T"	BODY FLAP LOWER SURFACE	XBF/CB	YBF/BB
"W"	RUDDER LEFT OUTER	ZR/BR	XR/CR
"X"	RUDDER LEFT INNER	ZR/BR	XR/CR
"6"	BASE PRESSURES		

TABLE III. WING AND ELEVON PRESSURE TAP LOCATIONS

Spanwise Location ~ η	Upper Surface XE/CE							
	X_o1359.6	-0.100	0.100	0.200	0.400	0.600	0.800	1.000
Inboard Edge					101		102	
0.340	15			103	104	105	106	107
0.427				108	109	110	111	112
0.534	35			113	114	115	116	117
0.615				118	119	120	121	122
Inboard Gap Edge					123		124	
Outboard Gap Edge					125		126	
0.715	55			127	128	129	130	131
0.800					133	134	135	136
0.887	75			137	138	139	140	141
0.960	85			142	143	144	145	146
Outboard Edge					147		148	149
	Lower Surface XE/CE							
Inboard Edge					150		151	
0.340		20	152	153	154	155	156	198
0.427			157	158	159	160	161	199
0.534		40	162	163	164	165	166	94
0.615			167	168	169	170	171	95
Inboard Gap Edge					172		173	
Outboard Gap Edge					174		175	
0.715		60	176	177	178	179	180	96
0.800			181	182	183	184	185	97
0.887		80	186	187	188	189	190	98
0.960		90	191	192	193	194	195	99
Outboard Edge					196		197	100

TABLE IV. FLIPPER DOOR PRESSURE TAP LOCATIONS

SPANWISE LOCATION WING	UPPER SURFACE XF /CF		
	0.10	0.50	0.90
0.340	201	202	203
0.427	204	205	206
0.534	207	208	209
0.615	210	211	212
0.715	213	214	215
0.800	216	217	218
0.887	219	220	221
0.960	222	223	224
Internal Cavity XF /CF			
0.340		225	
0.427		228	
0.534		231	
0.615		234	
0.715		237	
0.800		240	
0.887		243	
0.960		246	

TABLE V. BODY FLAP PRESSURE TAP LOCATIONS

SPANWISE LOCATION η = y/b at Hingeline	UPPER SURFACE X_{BF}/C_B			
	-0.20	0.20	0.60	1.00
0.10 (L.H. Side)		301	302	303
0.20			304	
0.35				
0.50 (Y_o = 0)		305	306	307
0.80 (R.H. Side)				
	LOWER SURFACE X_{BF}/C_B			
0.10 (L.H. Side)	309	314	315	316
0.20	310	317	318	319
0.35	311	320	321	322
0.50 (Y_o = 0)	312	323	324	325
0.80 (R.H. Side)				

TABLE VI. SPEED BRAKE PRESSURE TAP LOCATIONS

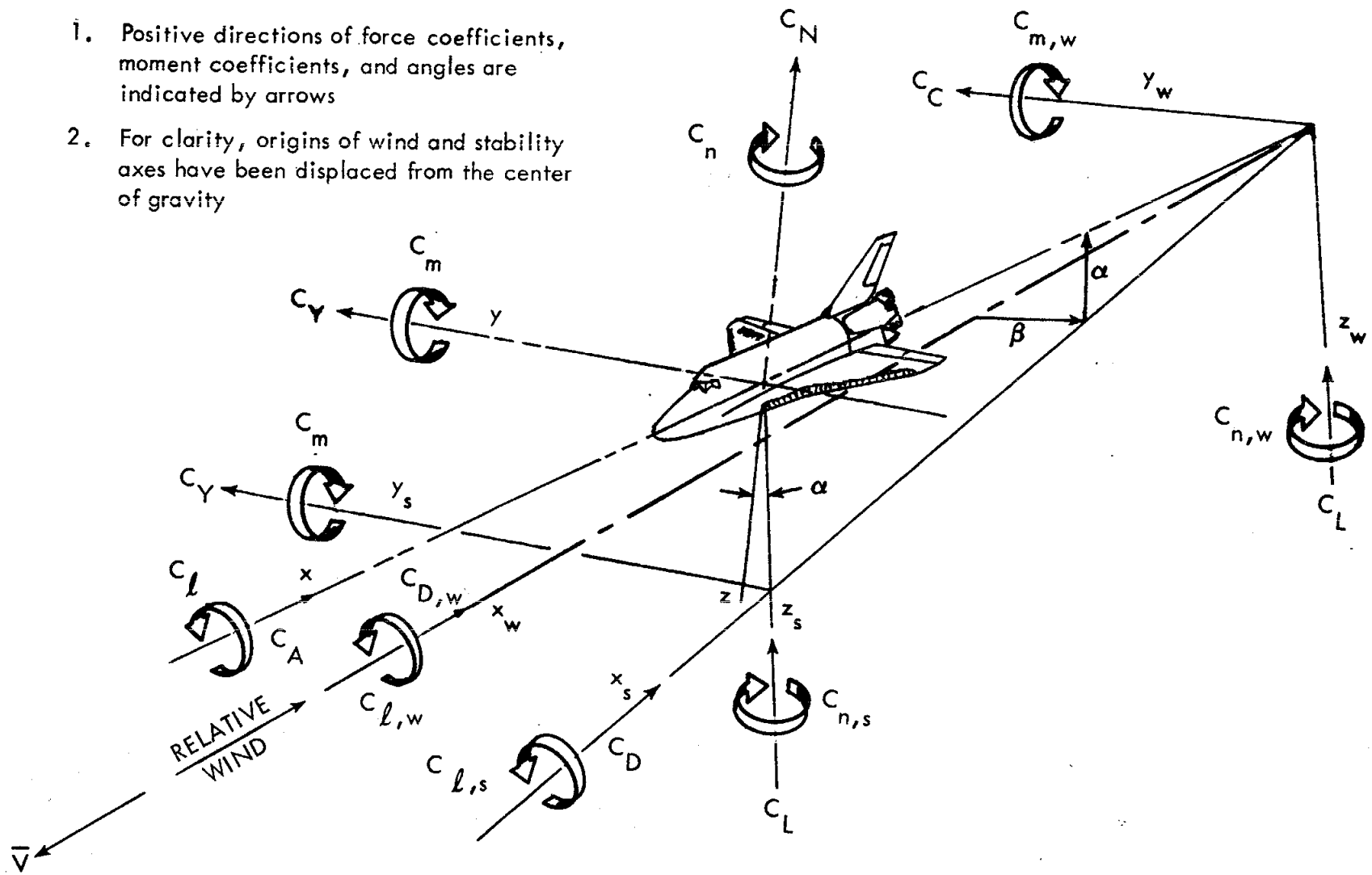
SPANWISE LOCATION η_R at Hingeline	OUTER SURFACE (L.H.) X_R/C_R				
	-0.20	0.20	0.60	0.80	1.00
0.10 (Bottom)	401	410	411		
0.20		412	413		414
0.30	403	415	416		417
0.40		418	419		420
0.50	405	421	422		423
0.60		424	425		426
0.70	407	427	428		429
0.80		430	431		432
0.90	409	433	434		435
1.03 (Top)				436	
	INSIDE SURFACE (L.H.) X_R/C_R				
0.10 (Bottom)		437	438		
0.20		439	440		441
0.30					
0.40		442	443		444
0.50		445	446		447
0.60					
0.70		448	449		450
0.80					
0.90		451	452		453
1.03 (Top)				454	

TABLE VII. COEFFICIENT TOLERANCES FOR THE 4-INCH TASK MKVIA BALANCE IN LaRC 16T CORRESPONDING TO THE RANGE OF DYNAMIC PRESSURES TESTED

COEFFICIENT	M = .6	M = 1.3
	q_∞ = 420 PSF	q_∞ = 910 PSF
C_N	± 0.01500	± 0.00690
C_m	± 0.00440	± 0.00204
C_A	± 0.00180	± 0.00082
C_ℓ	± 0.00060	± 0.00028
C_n	± 0.00092	± 0.00043
C_Y	± 0.00750	± 0.00350

Notes:

1. Positive directions of force coefficients, moment coefficients, and angles are indicated by arrows
2. For clarity, origins of wind and stability axes have been displaced from the center of gravity



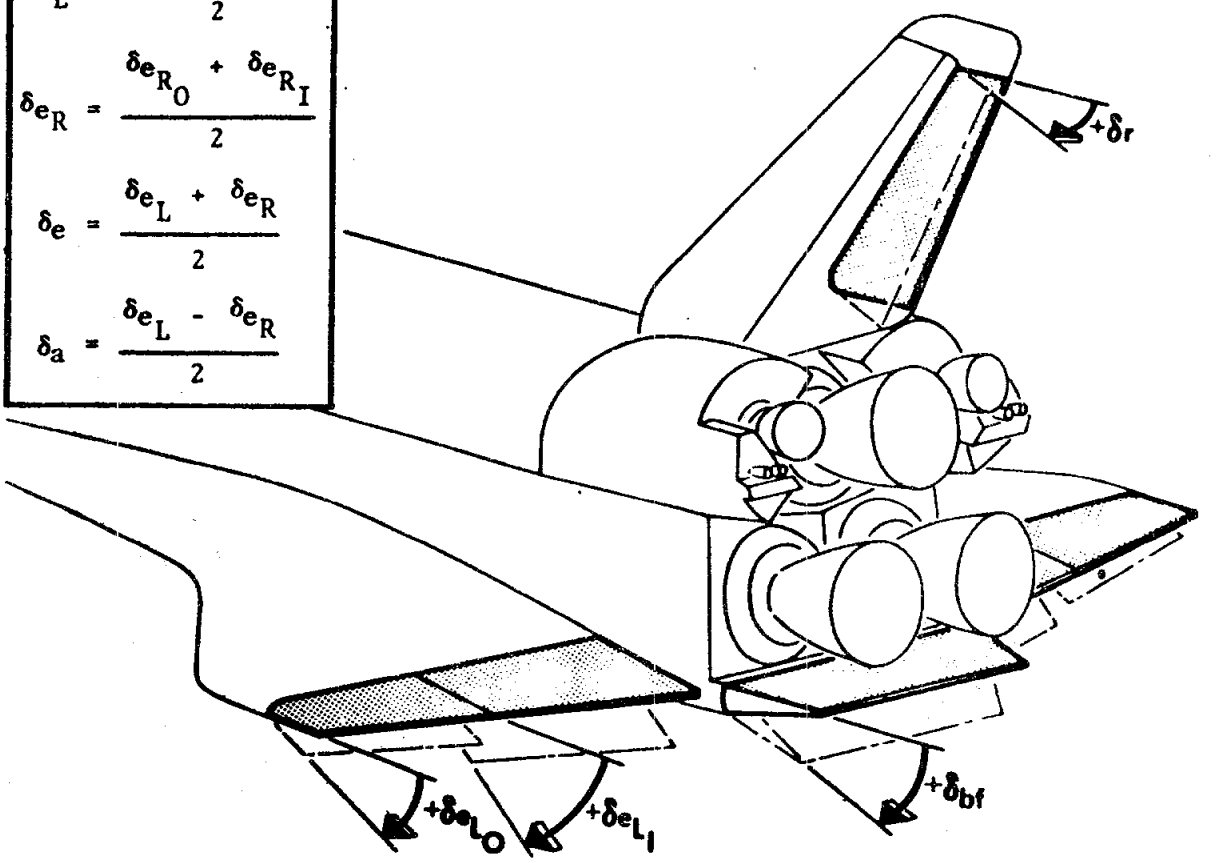
a. Axes Systems Definition
Figure 1. Axes systems and sign convention.

$$\delta e_L = \frac{\delta e_{L_O} + \delta e_{L_I}}{2}$$

$$\delta e_R = \frac{\delta e_{R_O} + \delta e_{R_I}}{2}$$

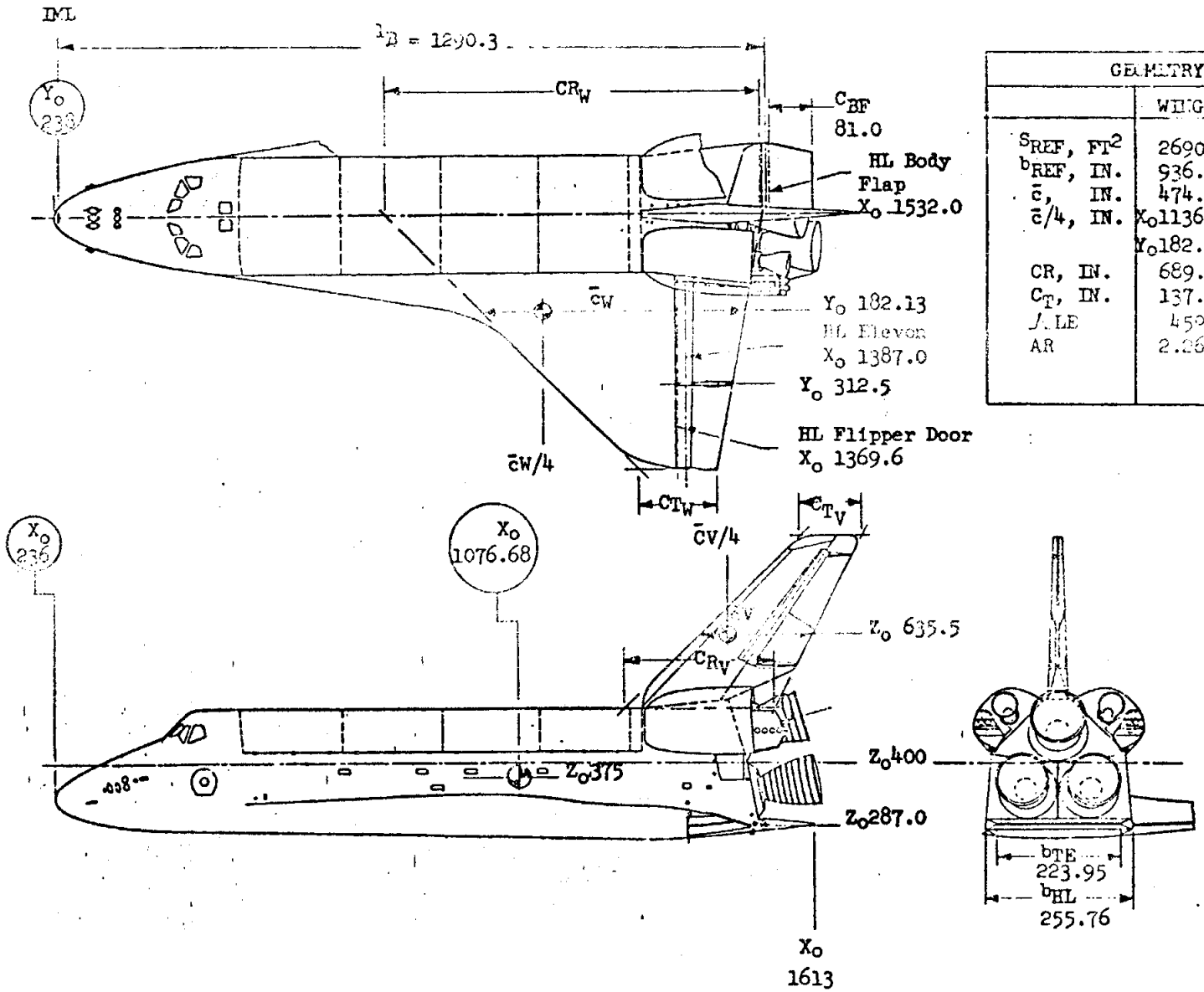
$$\delta e = \frac{\delta e_L + \delta e_R}{2}$$

$$\delta a = \frac{\delta e_L - \delta e_R}{2}$$



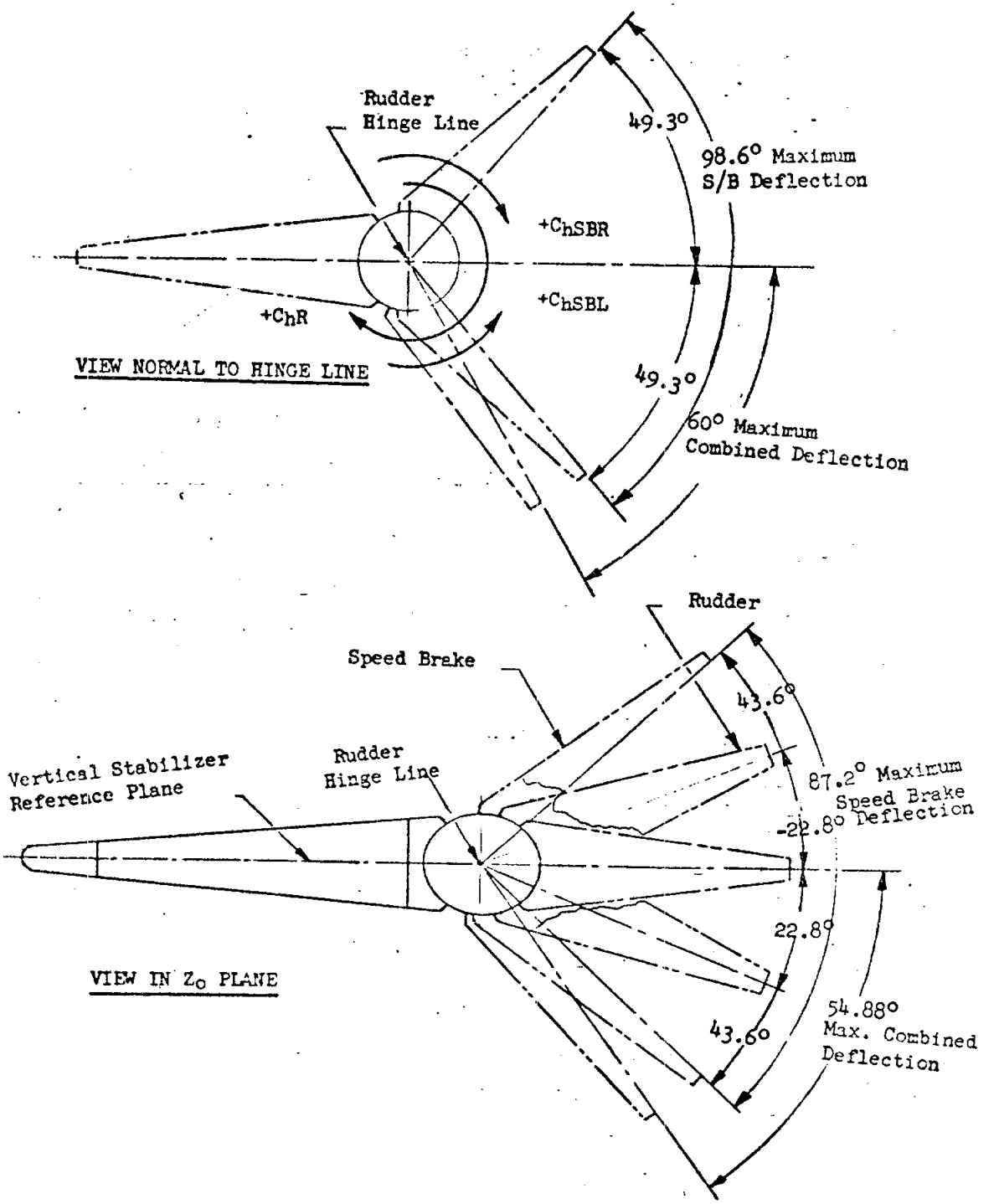
Positive Deflection of	Angle	Aero Forces and Moments	Hinge Moment
Rudder, δr	$+\beta$, $-\psi$	$+C_Y$, $-C_n$	$-C_{h_r}$
Elevon, δe	$-\alpha$, $-\theta$	$-C_m$	C_{h_e}
Right, δe_R	$-\phi$	$-C_\ell$	$-C_{h_{e_R}}$
Left, δe_L	$+\phi$	$+C_\ell$	$-C_{h_{e_L}}$
Aileron, δa	$+\phi$	$+C_\ell$	
Body Flap, δbf	$-\alpha$, $-\theta$	$-C_m$	$-C_{h_{bf}}$

b. Control Surface Deflections
Figure 1. Continued.

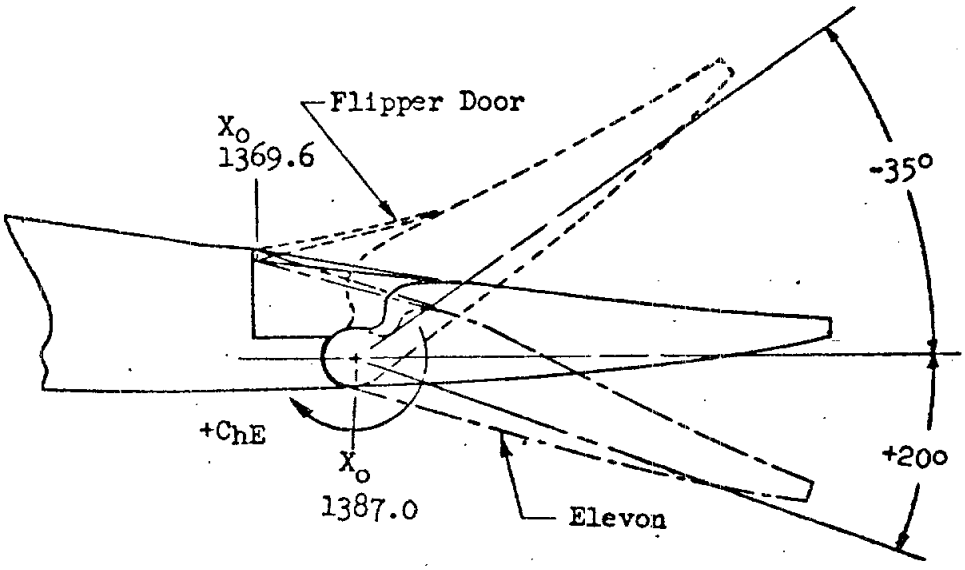


GEOMETRY		
	WING	VERTICAL
S_{REF}, FT^2	2690	413.25
b_{REF}, IN.	936.68	315.72
$\bar{c}$, IN.	474.81	199.81
$\bar{c}/4$, IN.	X_o1136.83	X_o1463.35
	Y_o182.13	Z_o635.5
CR, IN.	689.24	
C_T, IN.	137.85	
Λ_{LE}	45°	45°
AR	2.265	1.675

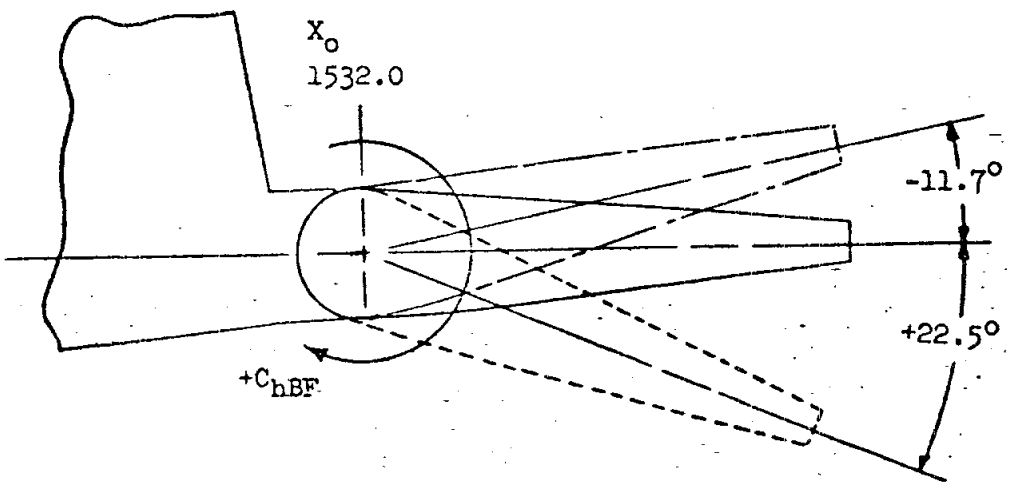
c. Orbiter Reference Dimensions
Figure 1. Continued.



d. Rudder/Speed Brake Deflections
Figure 1. Continued.

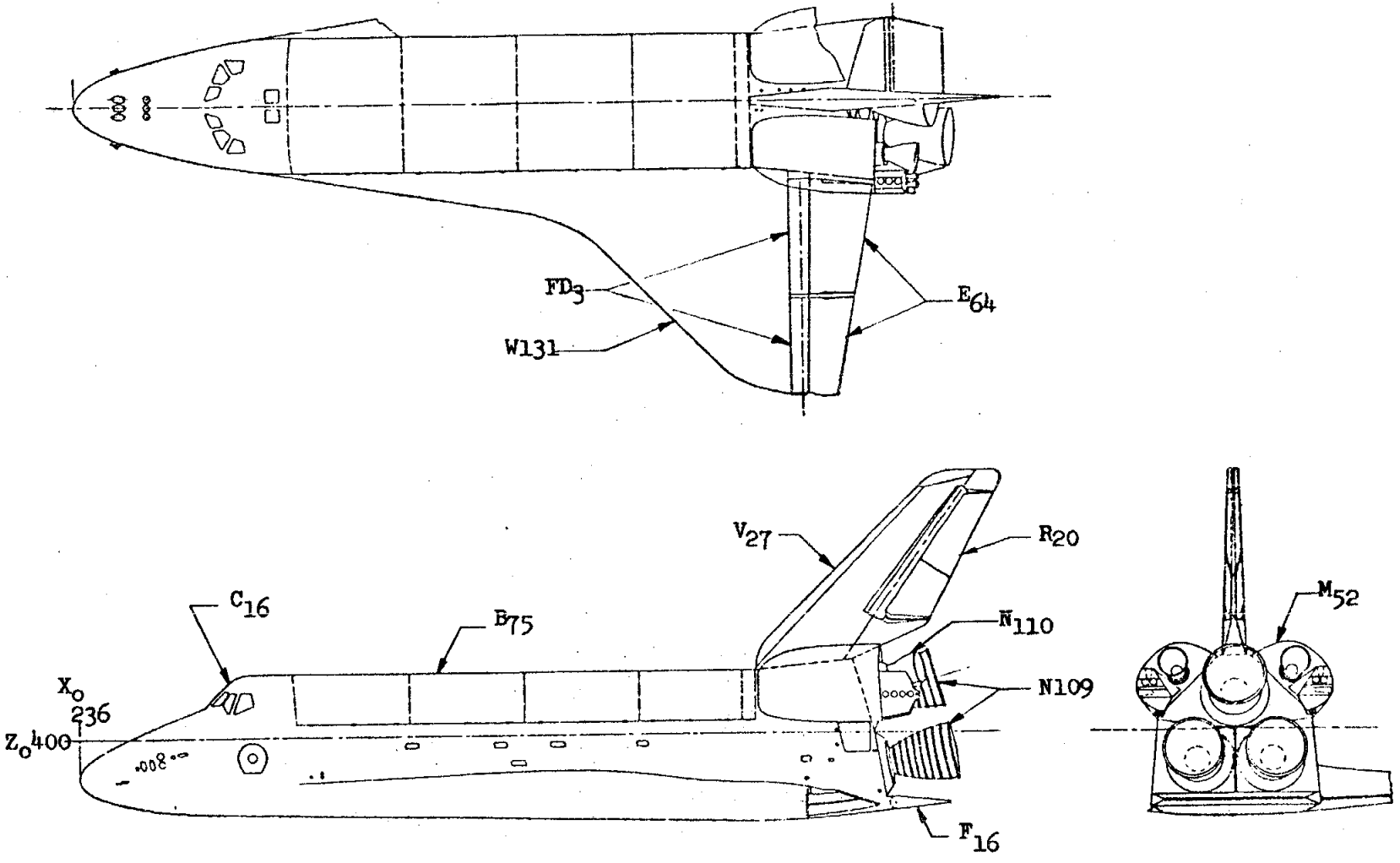


ELEVON DEFLECTIONS



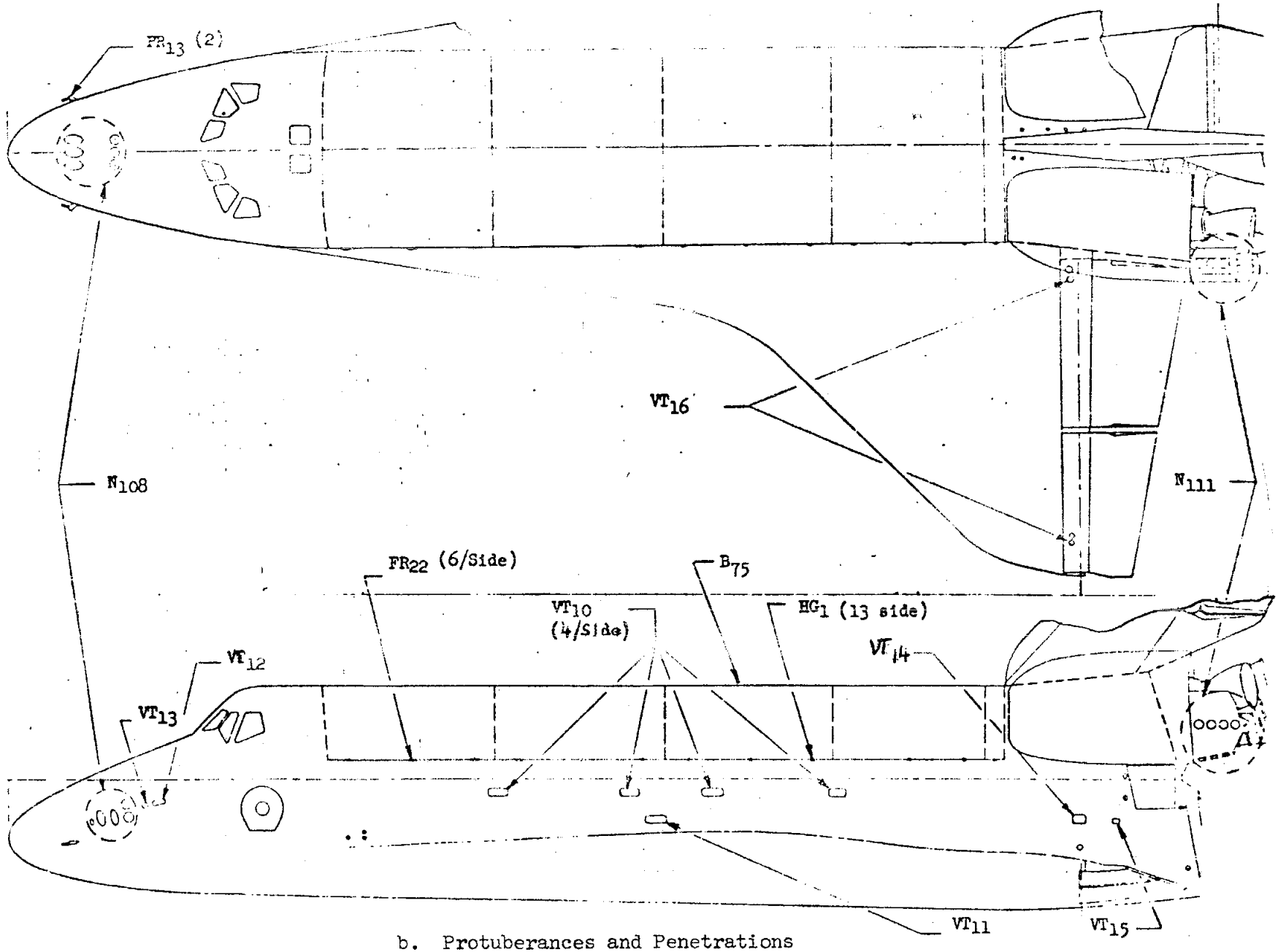
BODY FLAP DEFLECTIONS

e. Elevon and Body Flap Deflections
Figure 1. Concluded.

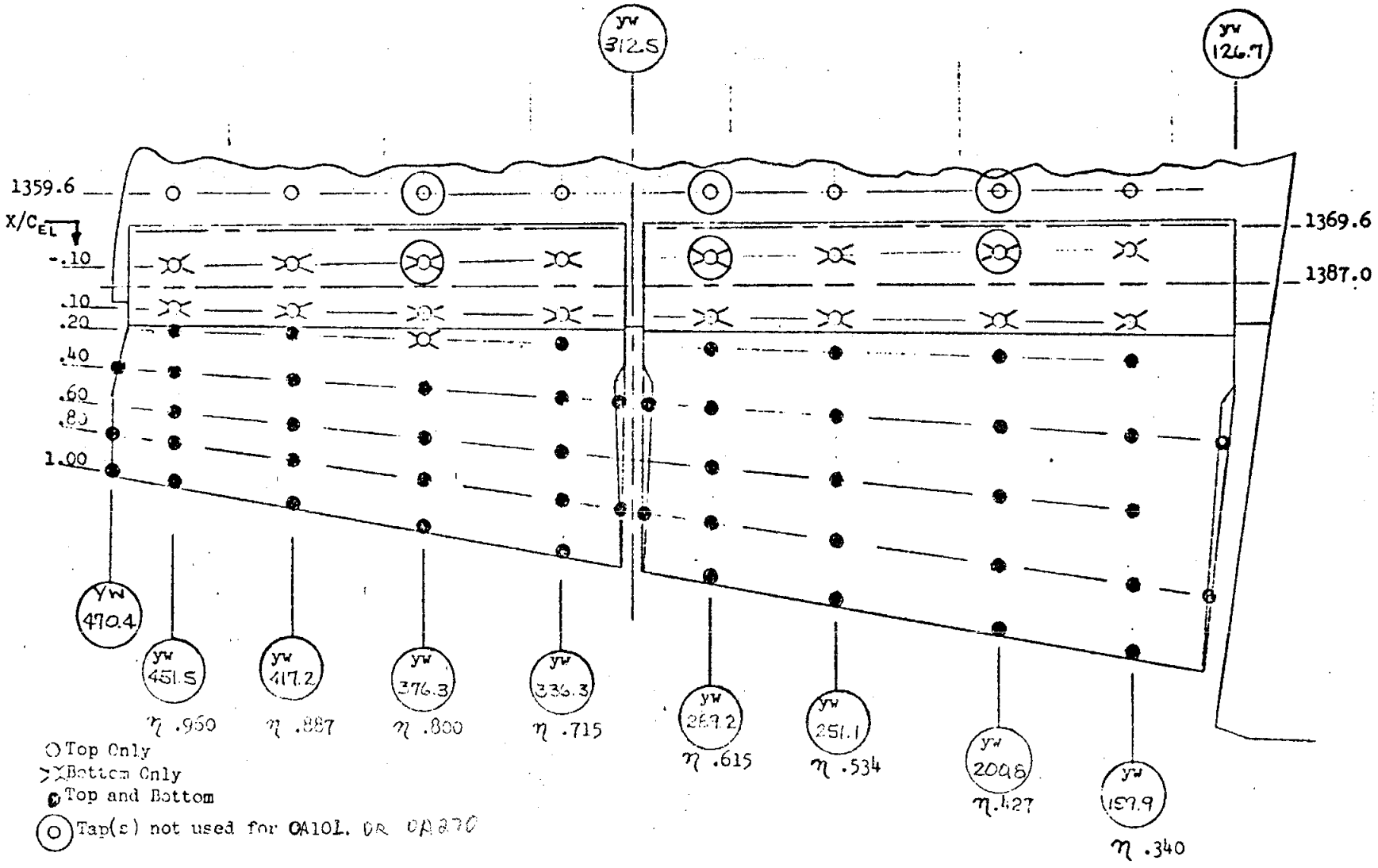


a. Orbiter Configuration

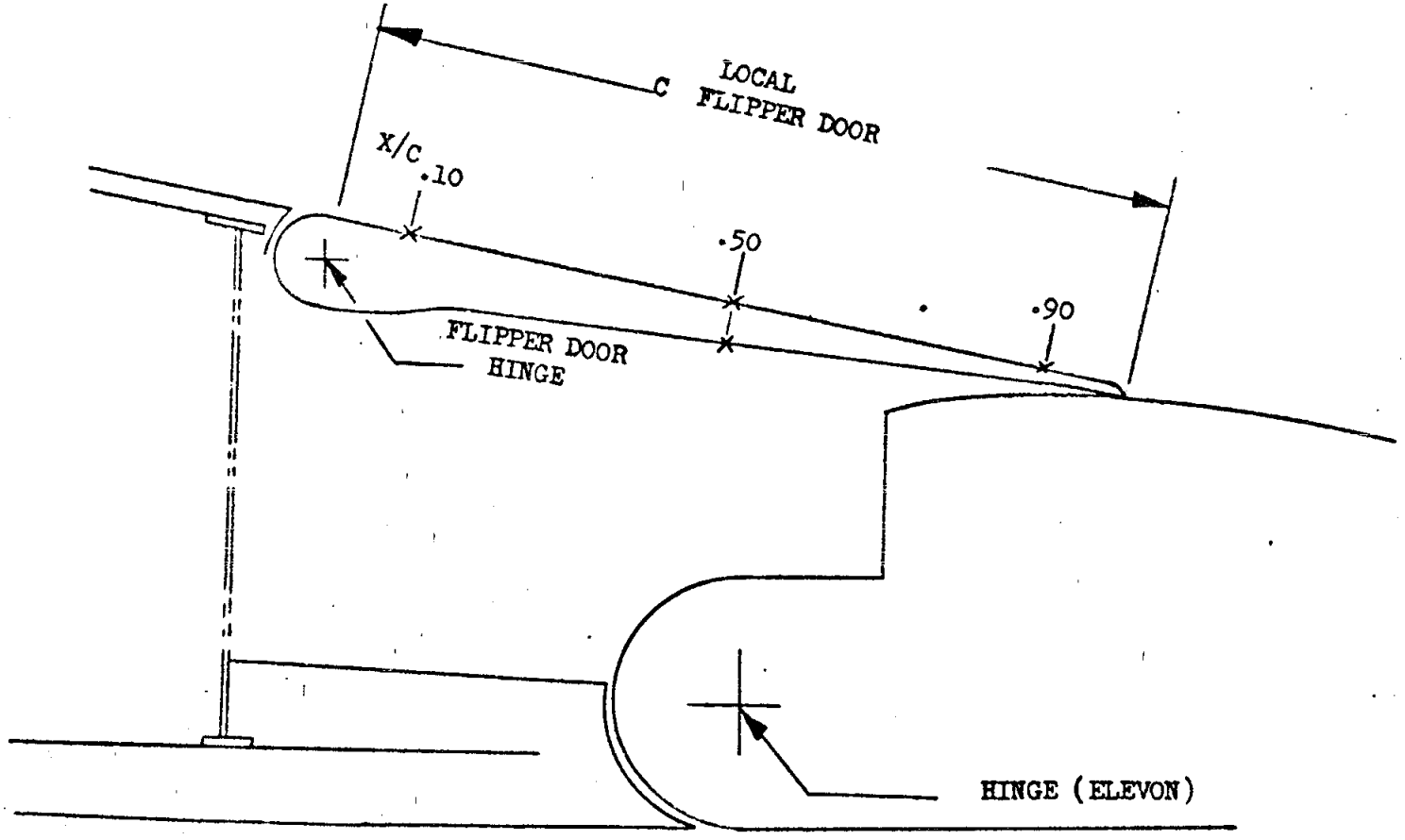
Figure 2. Model sketches.



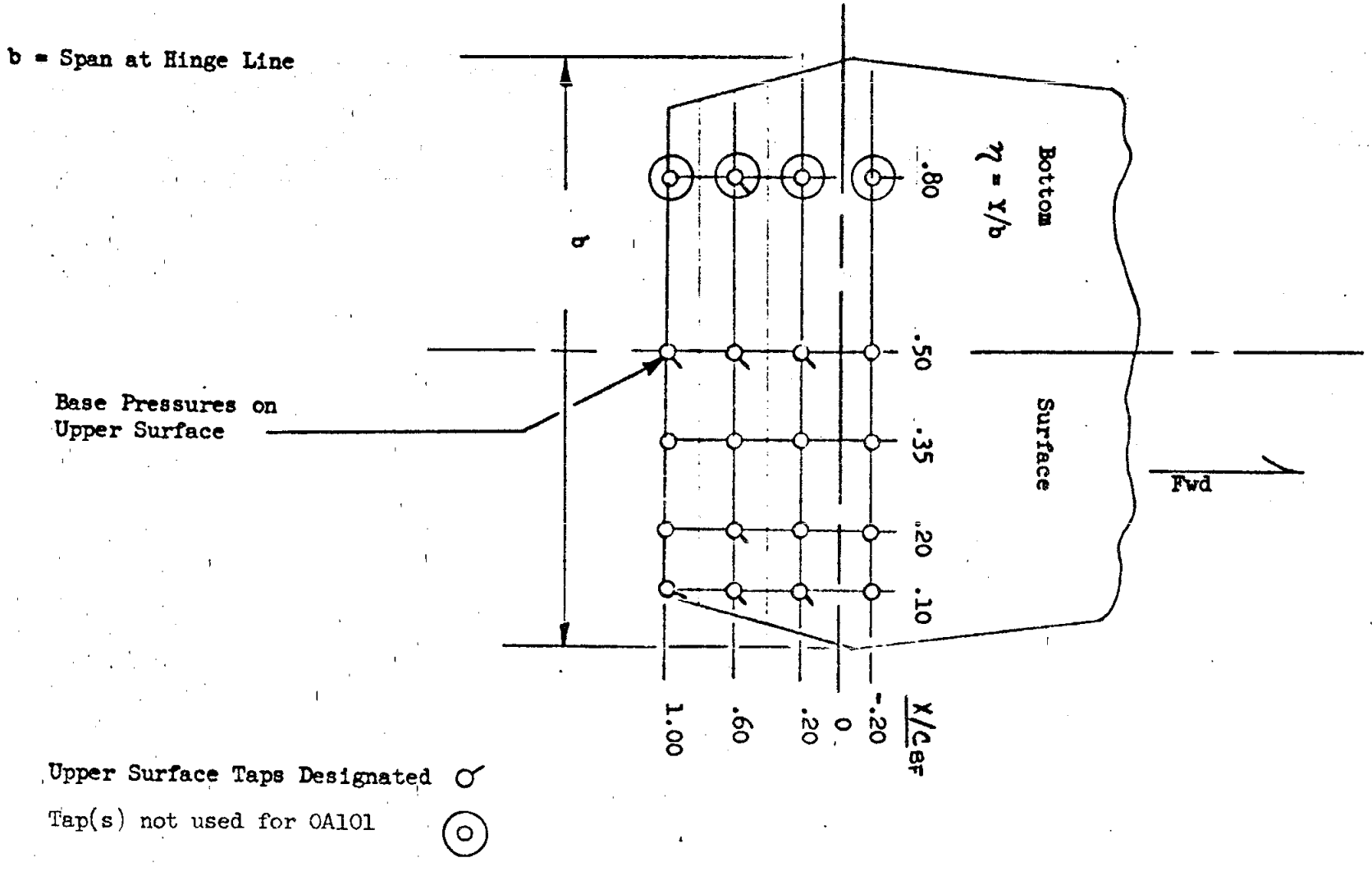
b. Protuberances and Penetrations
Figure 2. Continued.



c. Elevon and Wing Pressure Tap Locations
Figure 2. Continued.



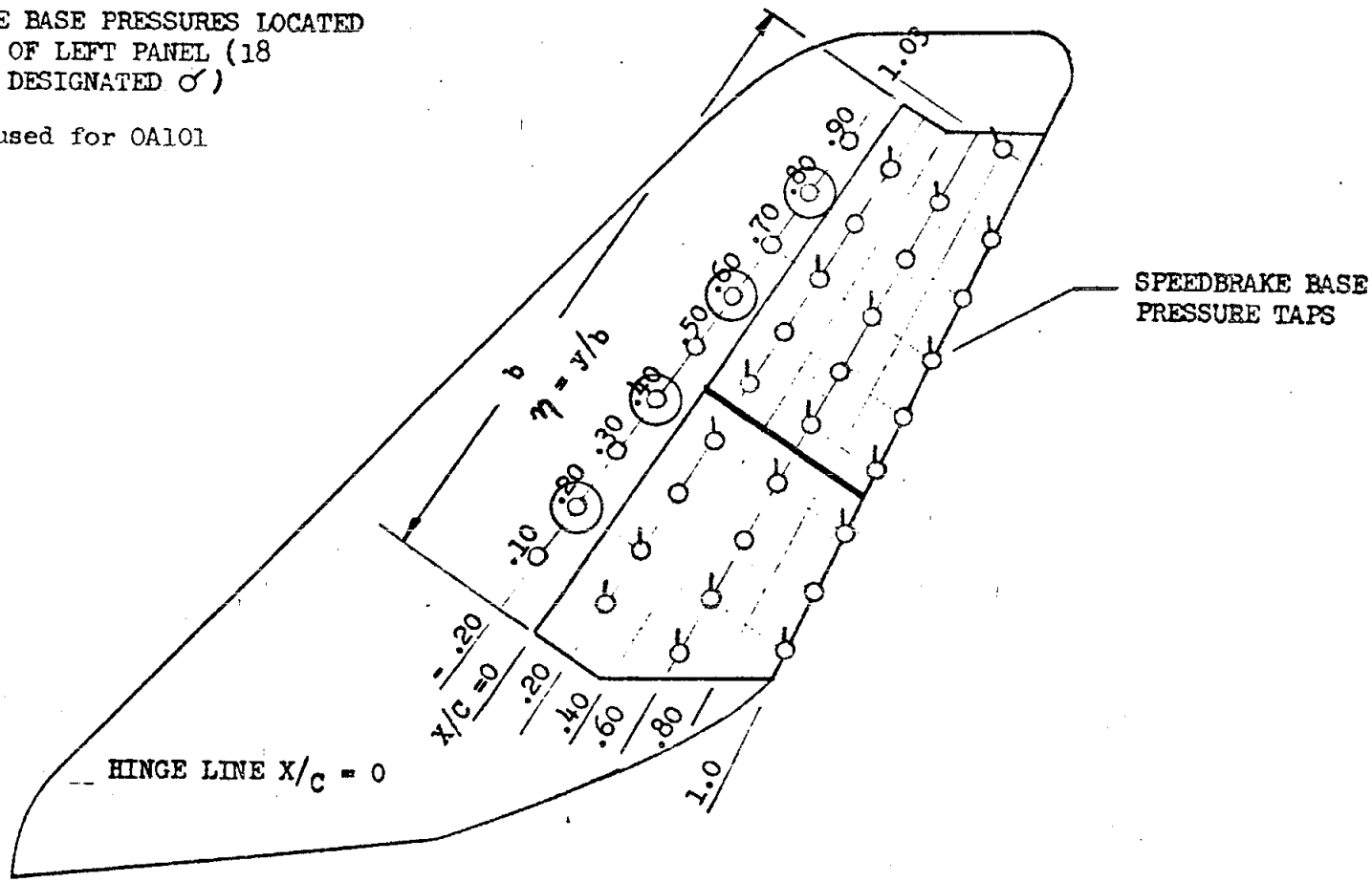
d. Flipper Door and Elevon Cavity Pressure Tap Locations
Figure 2. Continued.



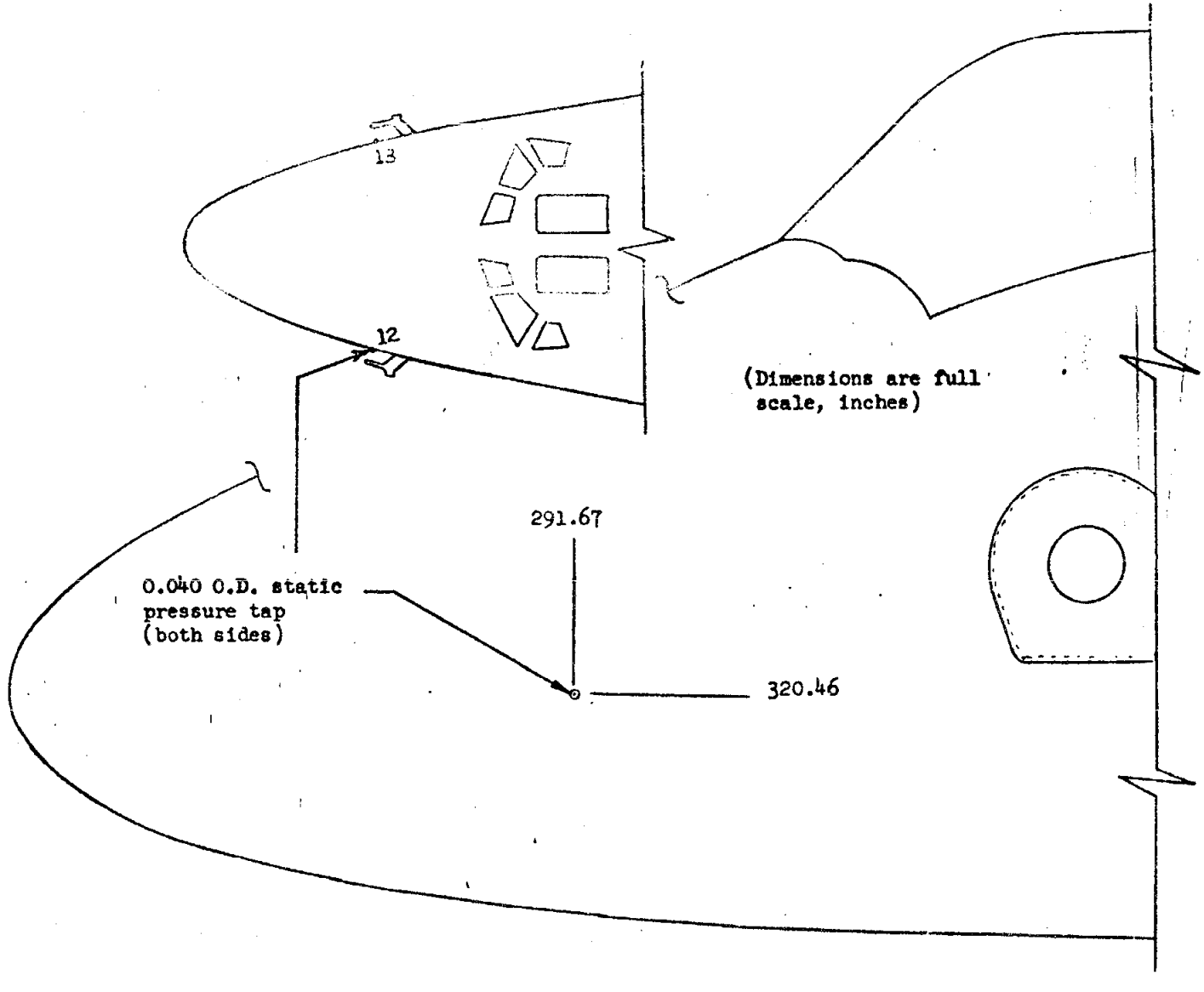
e. Body Flap Pressure Tap Locations
Figure 2. Continued.

- ALL MEASUREMENTS LEFT SIDE ONLY.
- TAPS AT T.E. LOCATED AS CLOSE TO T.E. AS POSSIBLE.
- SPEEDBRAKE BASE PRESSURES LOCATED ON INSIDE OF LEFT PANEL (18 LOCATIONS DESIGNATED ♂)

⊙ Taps not used for OA101



f. Rudder/Speed Brake Surface Pressure Tap Locations
Figure 2. Continued.

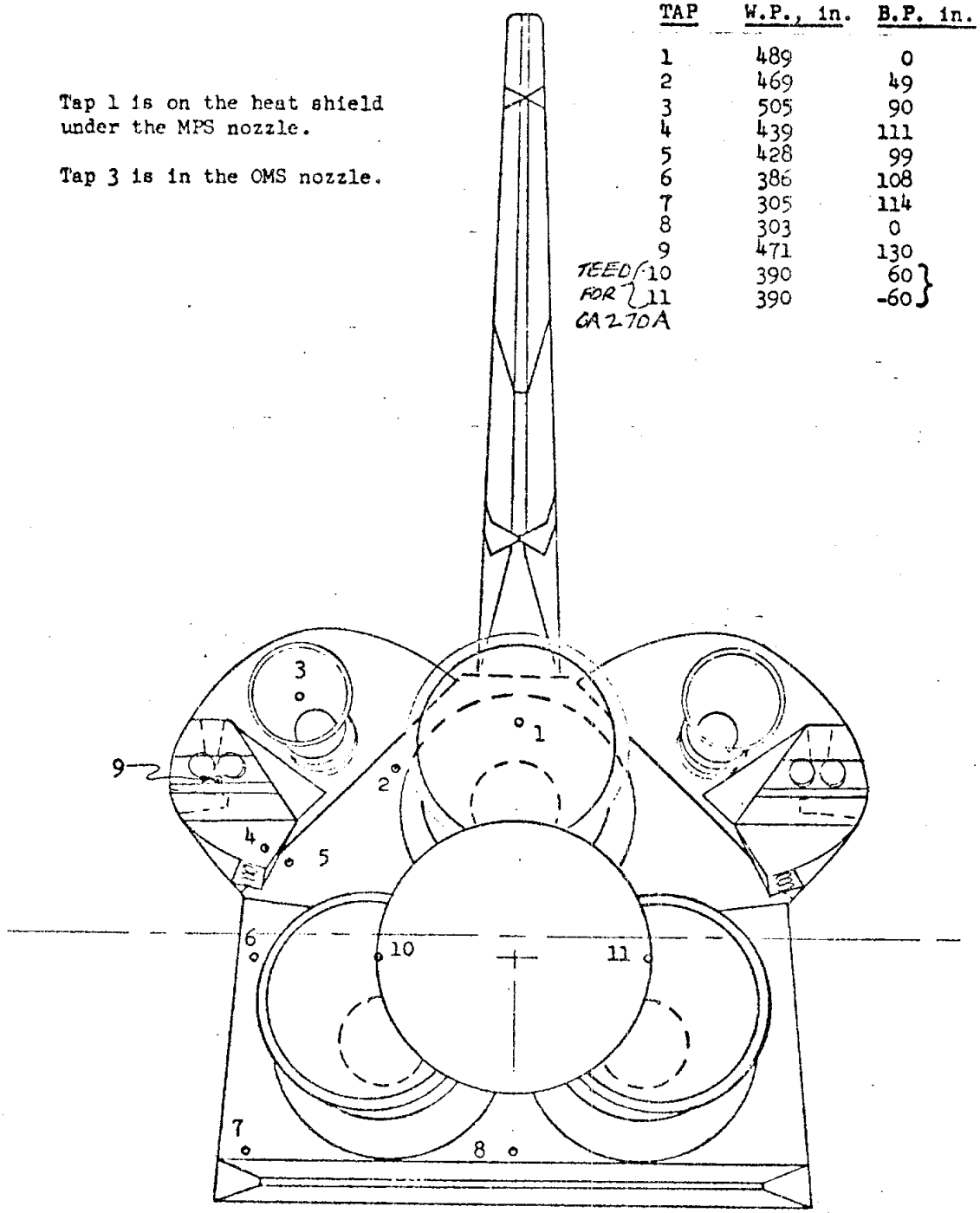


g. Air Data Probe Pressure Tap Locations
Figure 2. Continued.

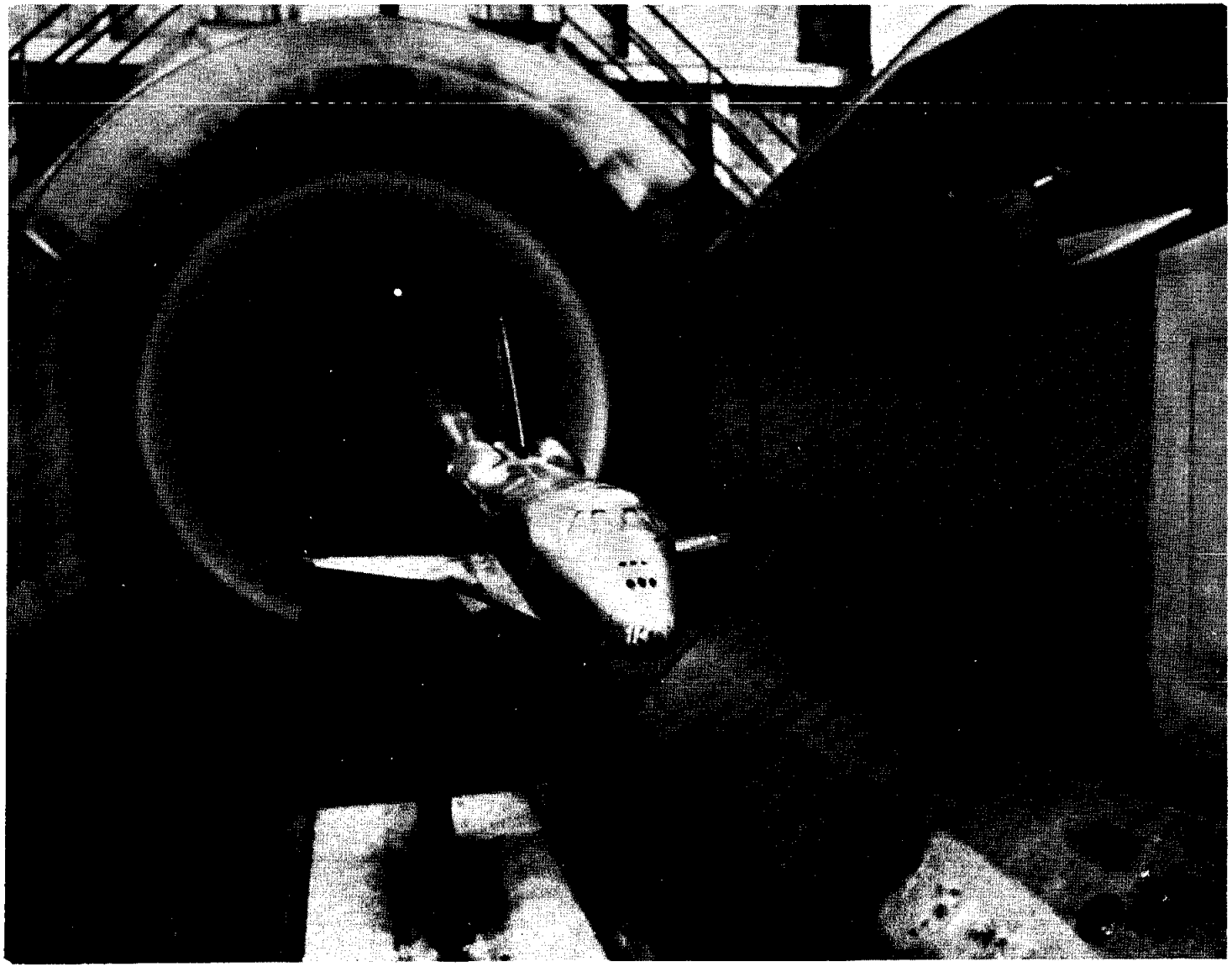
Tap 1 is on the heat shield under the MPS nozzle.

Tap 3 is in the OMS nozzle.

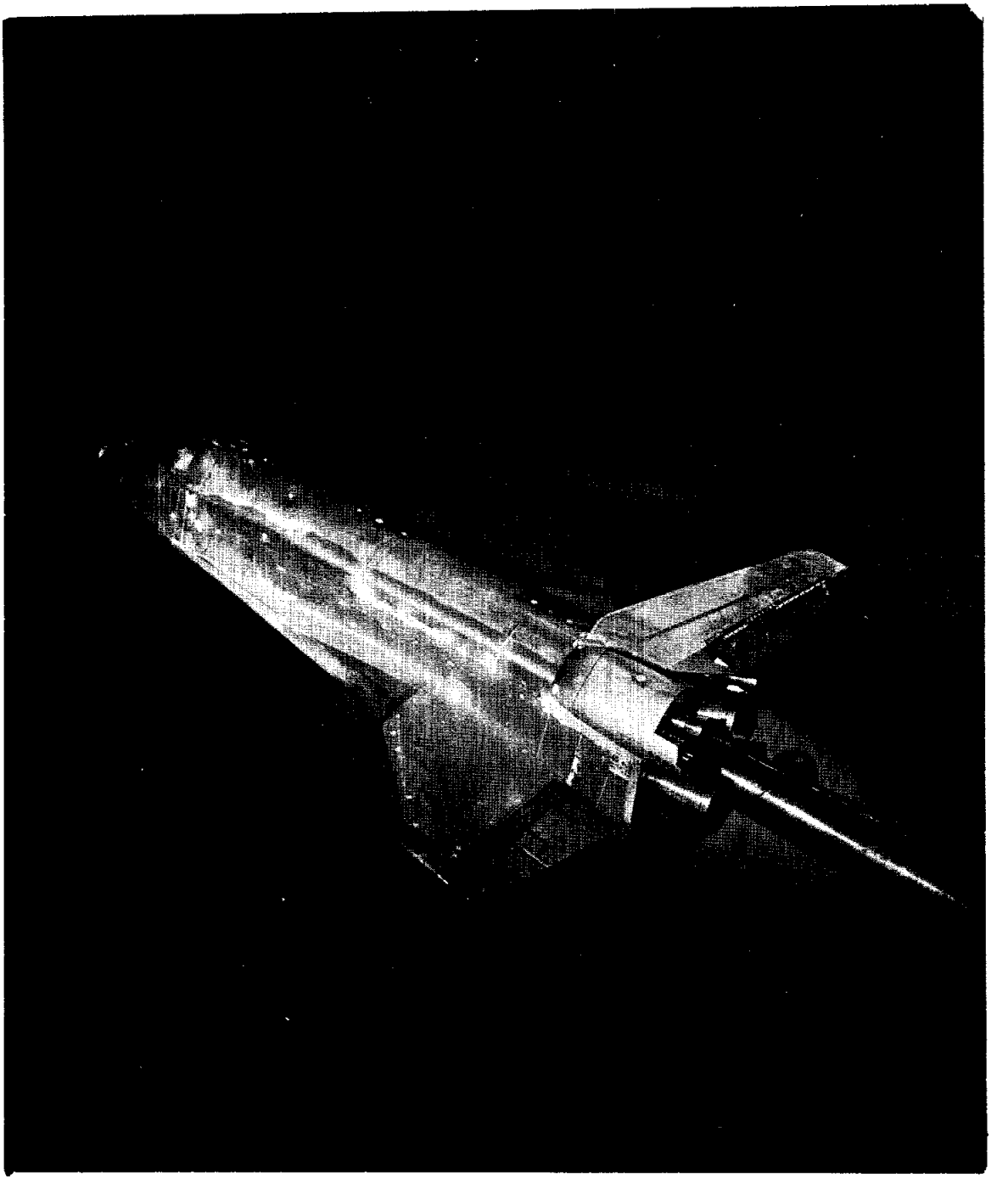
TAP	W.P., in.	B.P. in.	Area, ft^2
1	489	0	23.48
2	469	49	32.96
3	505	90	18.68
4	439	111	22.12
5	428	99	30.88
6	386	108	45.84
7	305	114	71.92
8	303	0	34.40
9	471	130	78.00
TEED 10	390	60	78.52
FOR 11	390	-60	
GA270A			
			435.50



h. Base Pressure Tap Locations
Figure 2. Concluded.



a. Front View
Figure 3. Model installation photographs.



b. Rear View
Figure 3. Concluded.

DATA FIGURES

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DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0034	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F010	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	

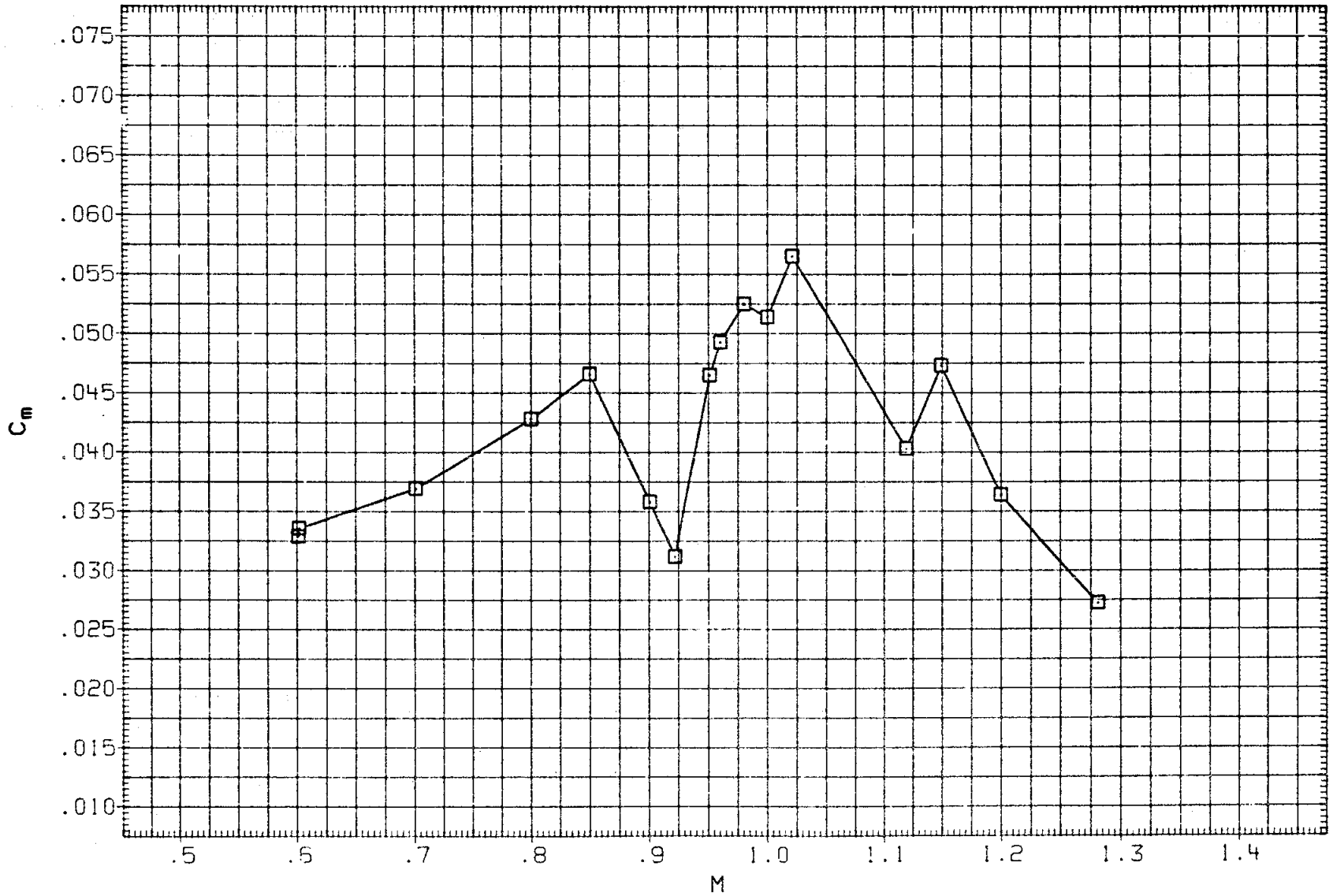

FIGURE 4. DIAGNOSTIC MACH SWEEPS, LONGITUDINAL

(A)ALPHA = .16

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0034	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F010	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	

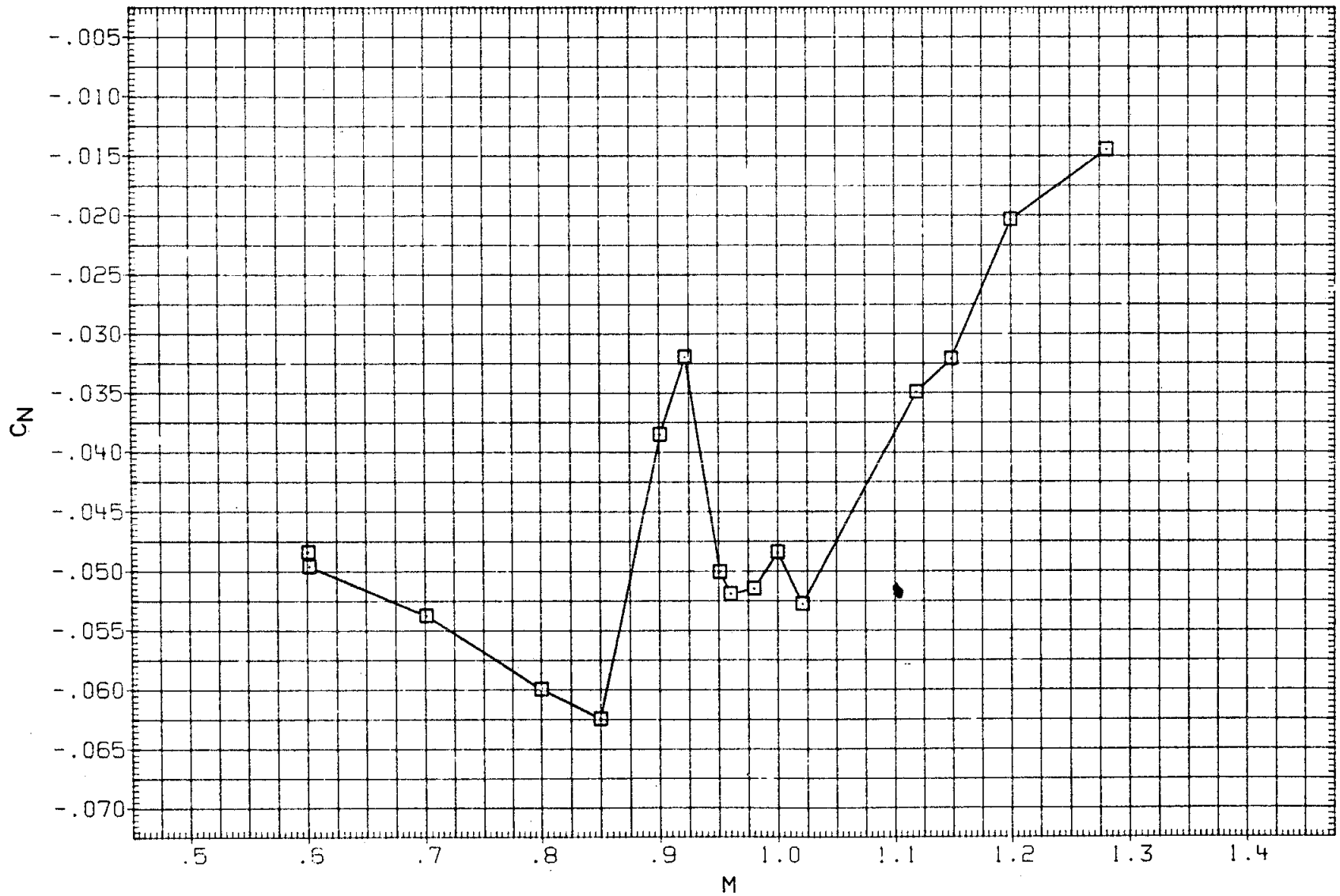

FIGURE 4. DIAGNOSTIC MACH SWEEPS, LONGITUDINAL

(A)ALPHA = .16

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0034	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F010	◇	DATA NOT AVAILABLE	.00[illegible]	.000	.000	.000	25.000	.000	

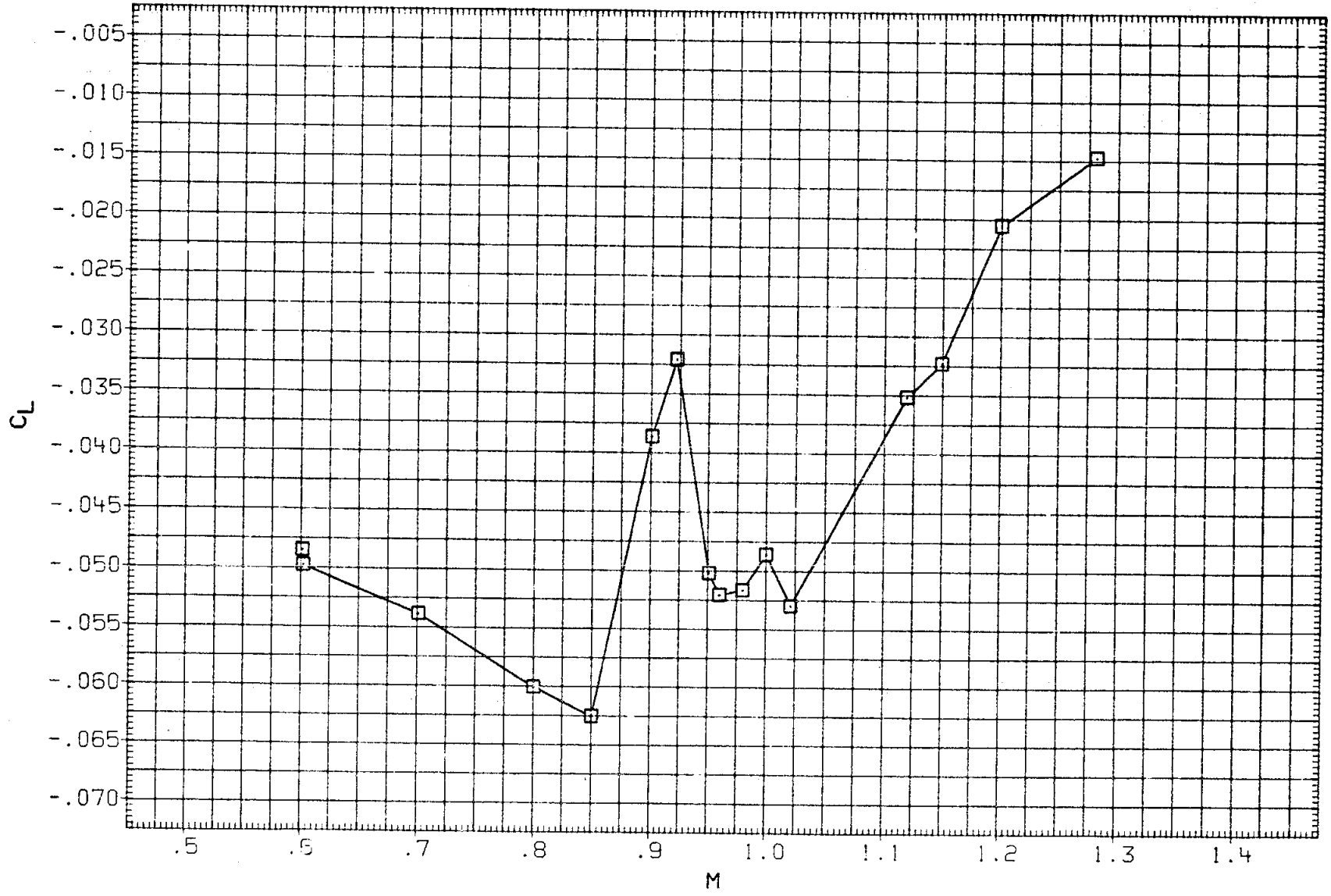

FIGURE 4. DIAGNOSTIC MACH SWEEPS, LONGITUDINAL

(A)ALPHA = .16

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0034	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F010	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	

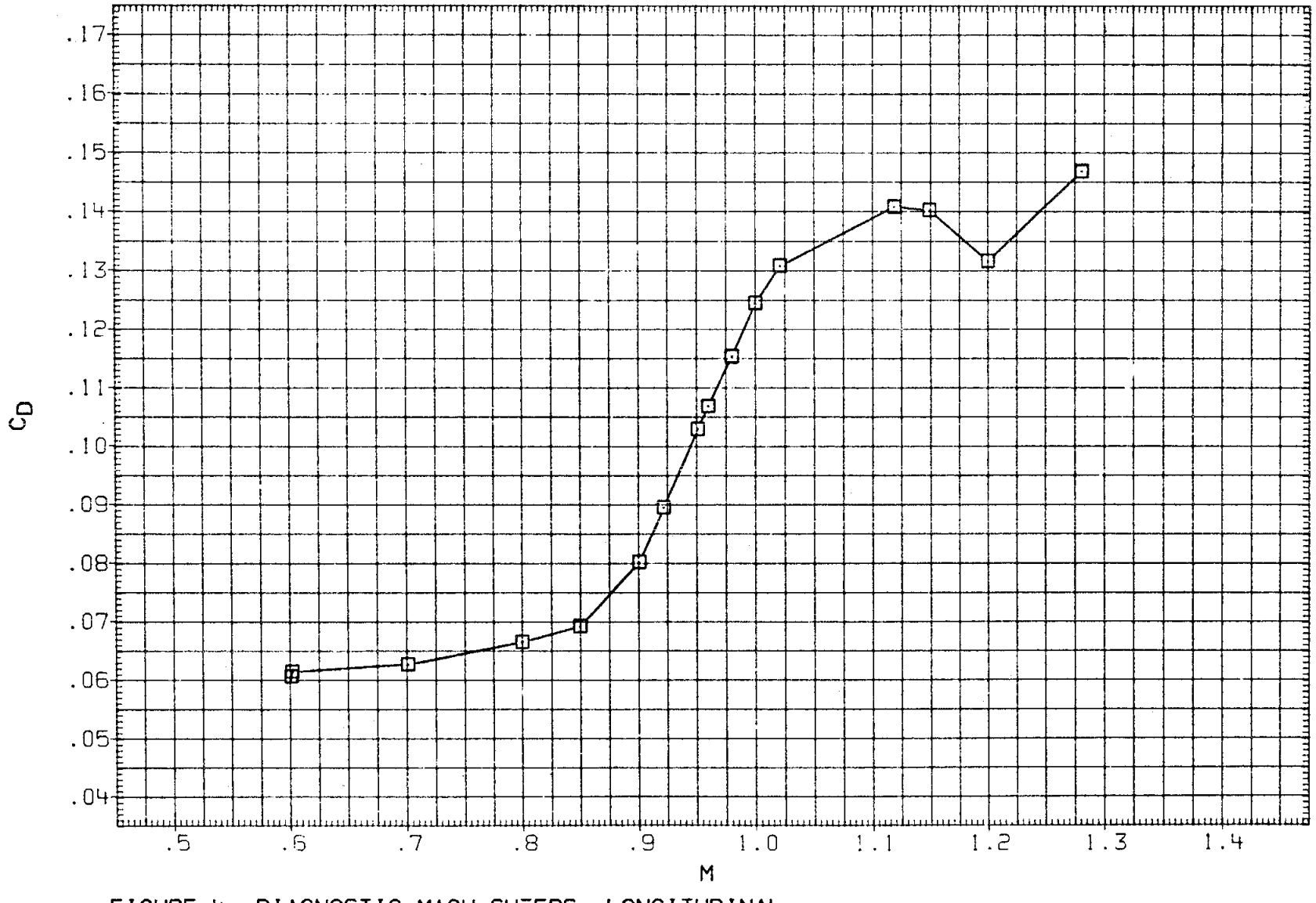

FIGURE 4. DIAGNOSTIC MACH SWEEPS, LONGITUDINAL

(A)ALPHA = .16

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0034	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F010	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	

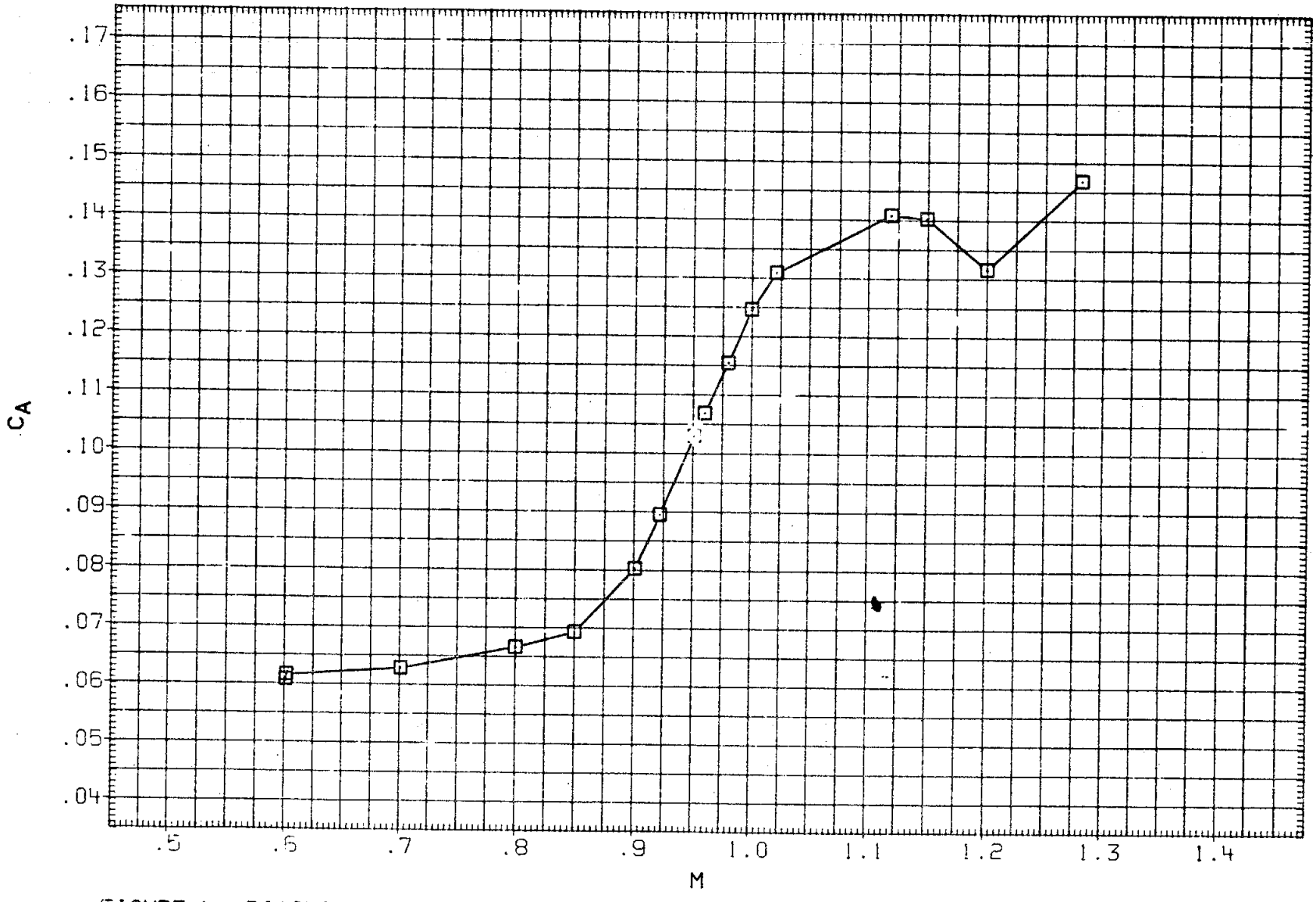

FIGURE 4. DIAGNOSTIC MACH SWEEPS, LONGITUDINAL

(A)ALPHA = .16

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0034	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F010	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

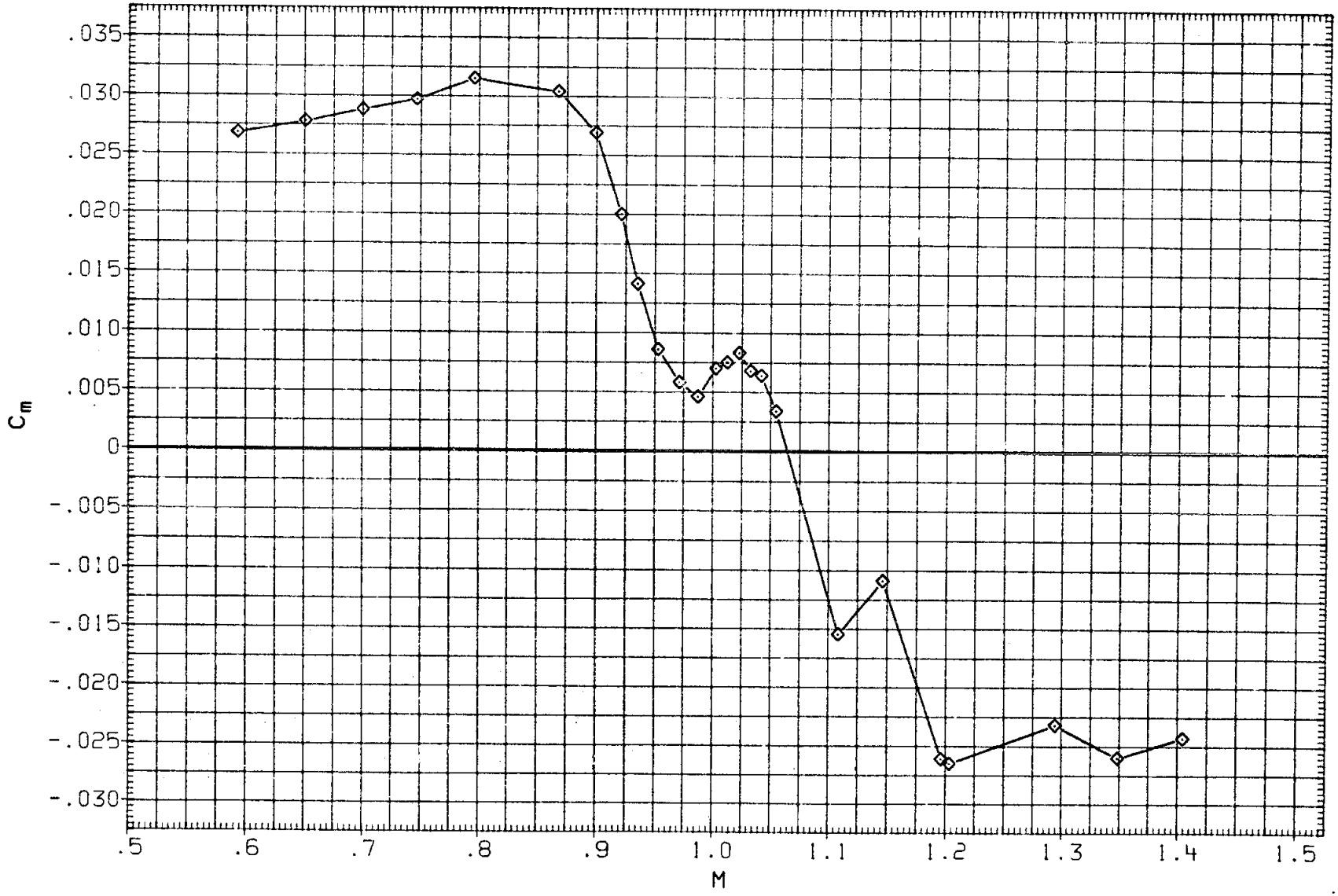

FIGURE 4. DIAGNOSTIC MACH SWEEPS, LONGITUDINAL

(B)ALPHA = 4.40

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0034	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F010	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

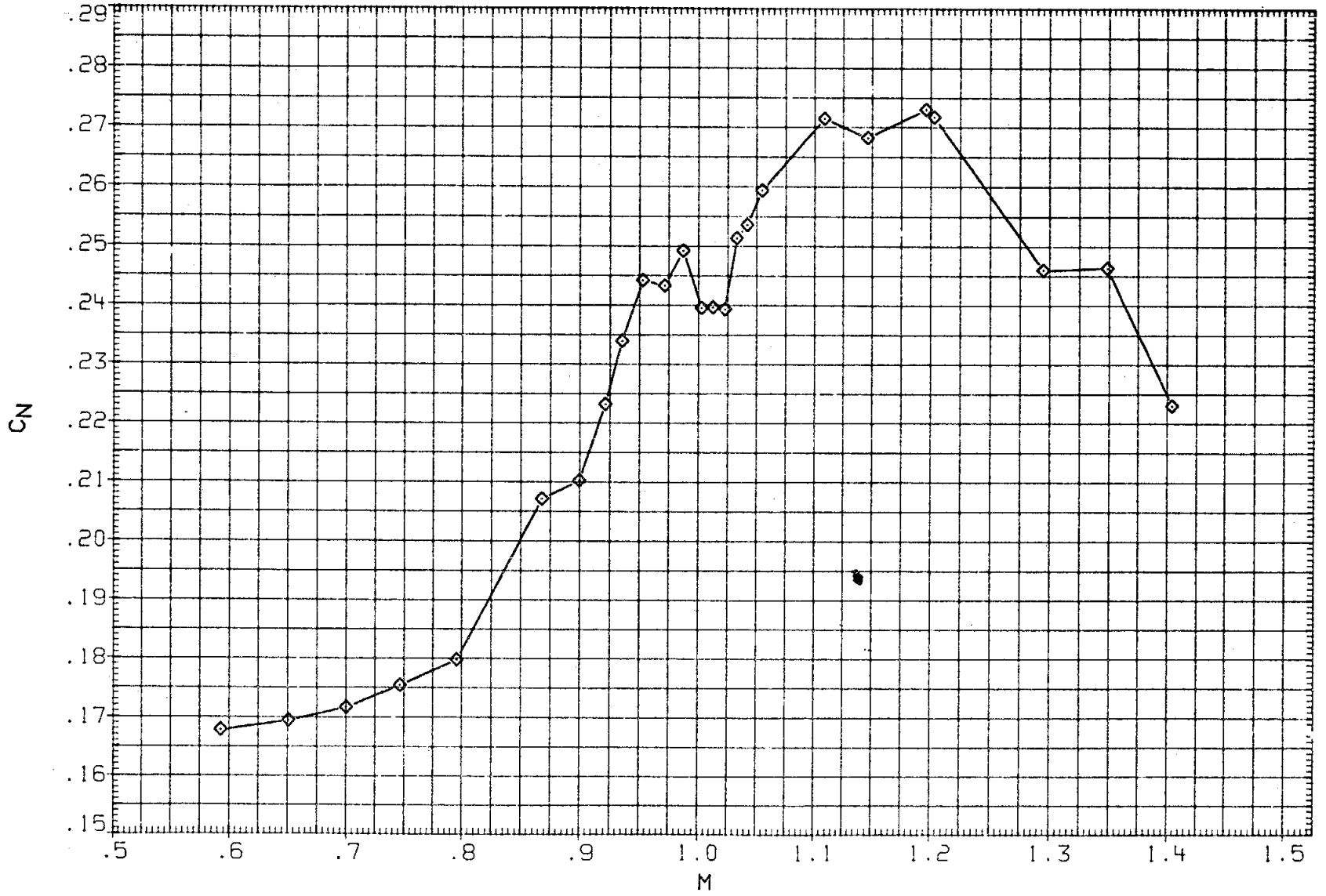

FIGURE 4. DIAGNOSTIC MACH SWEEPS, LONGITUDINAL

(B)ALPHA = 4.40

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0034	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F010	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

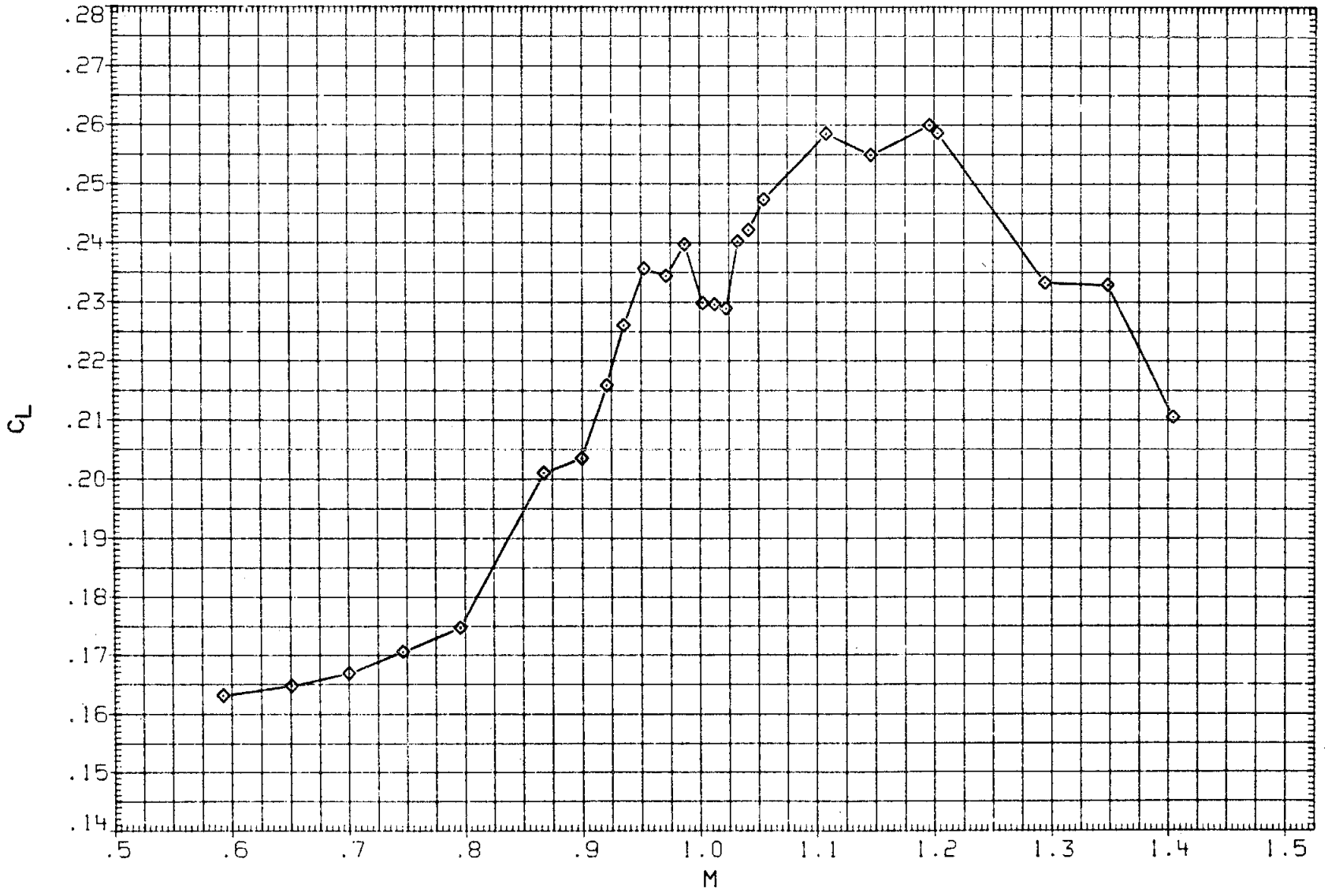

FIGURE 4. DIAGNOSTIC MACH SWEEPS, LONGITUDINAL

(B) ALPHA = 4.40

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SFDBRK	RUDDER	PHI
RK0034	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F010	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

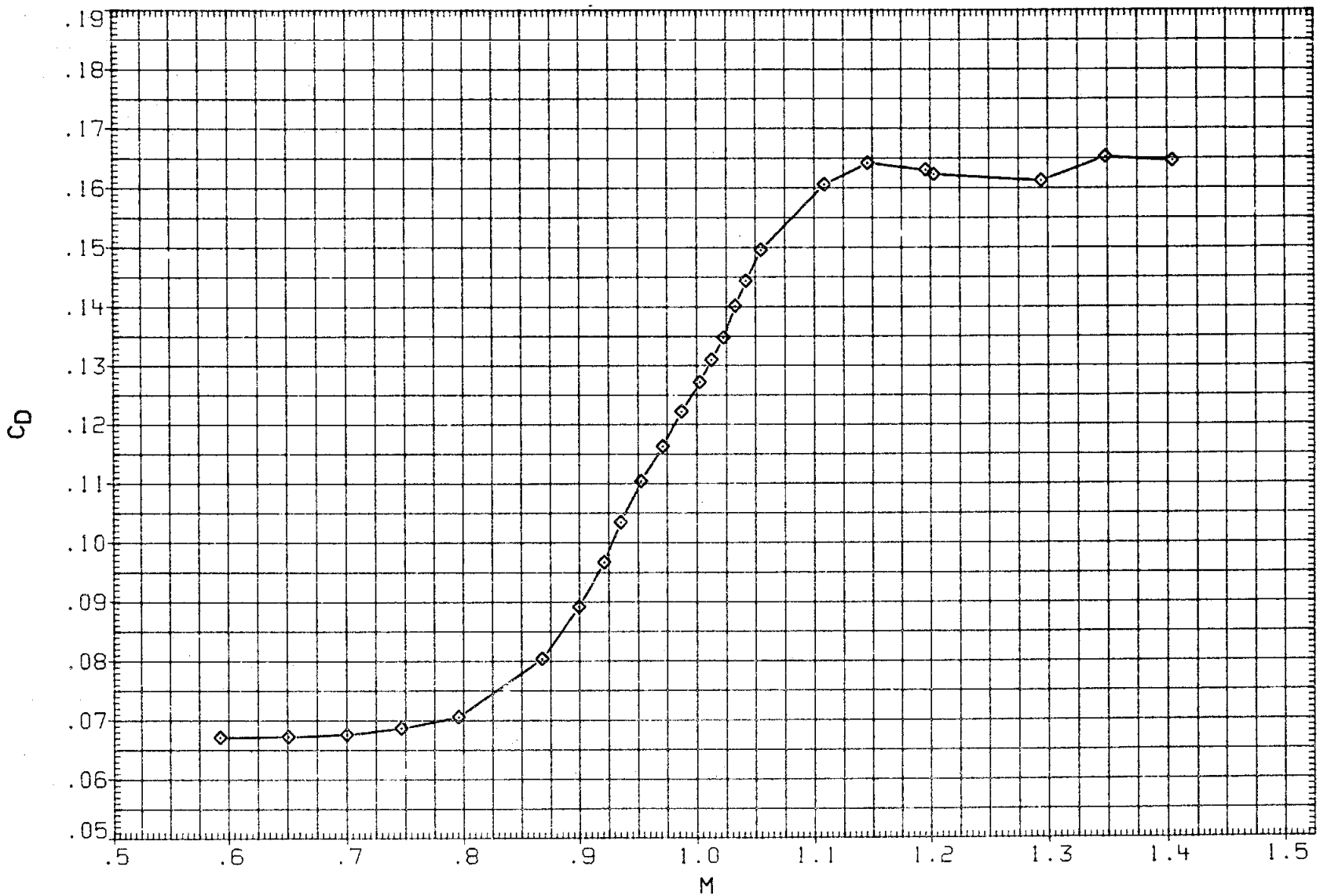

FIGURE 4. DIAGNOSTIC MACH SWEEPS, LONGITUDINAL

(B)ALPHA = 4.40

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0034	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F010	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

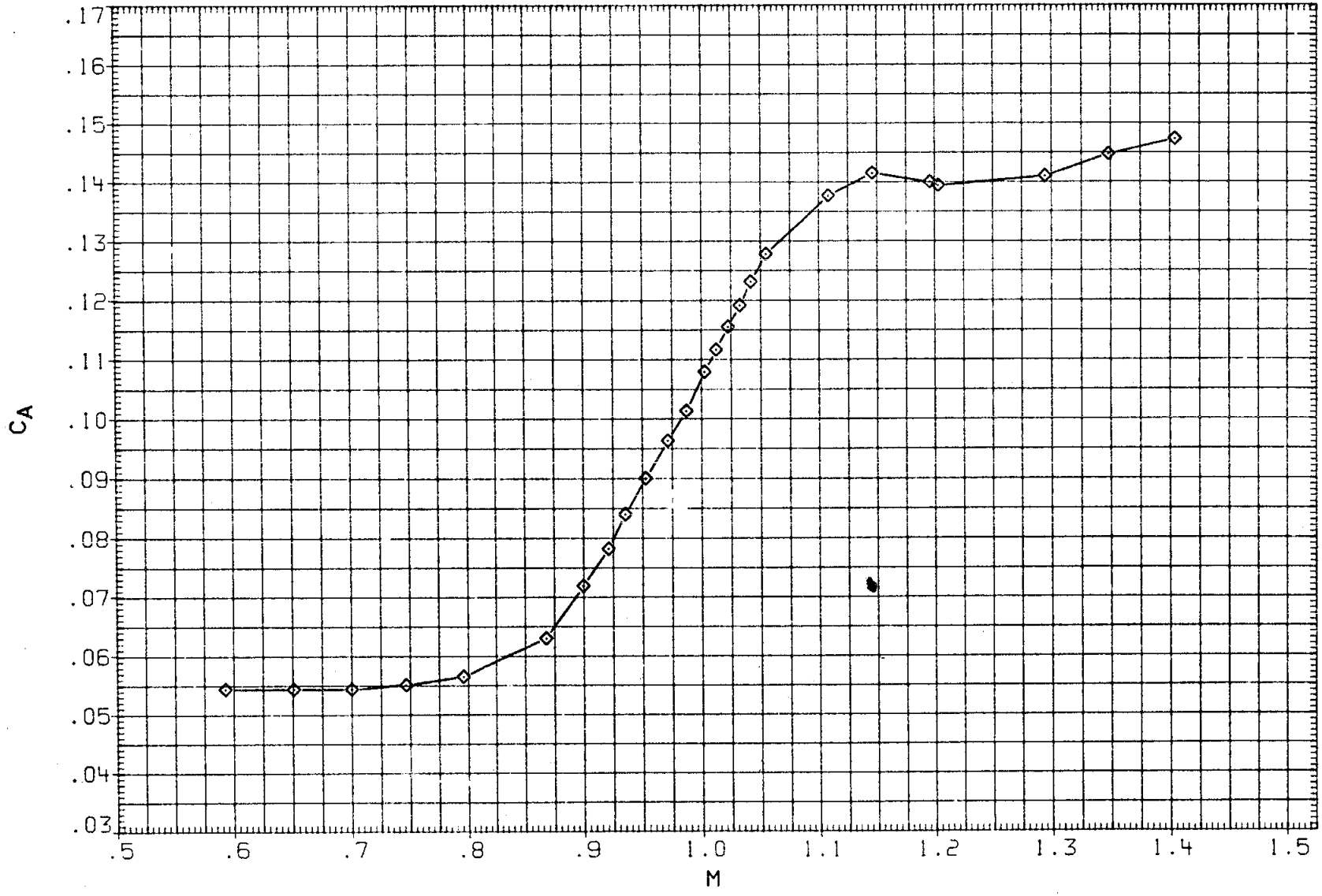

FIGURE 4. DIAGNOSTIC MACH SWEEPS, LONGITUDINAL

(B)ALPHA = 4.40

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0034	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F010	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	

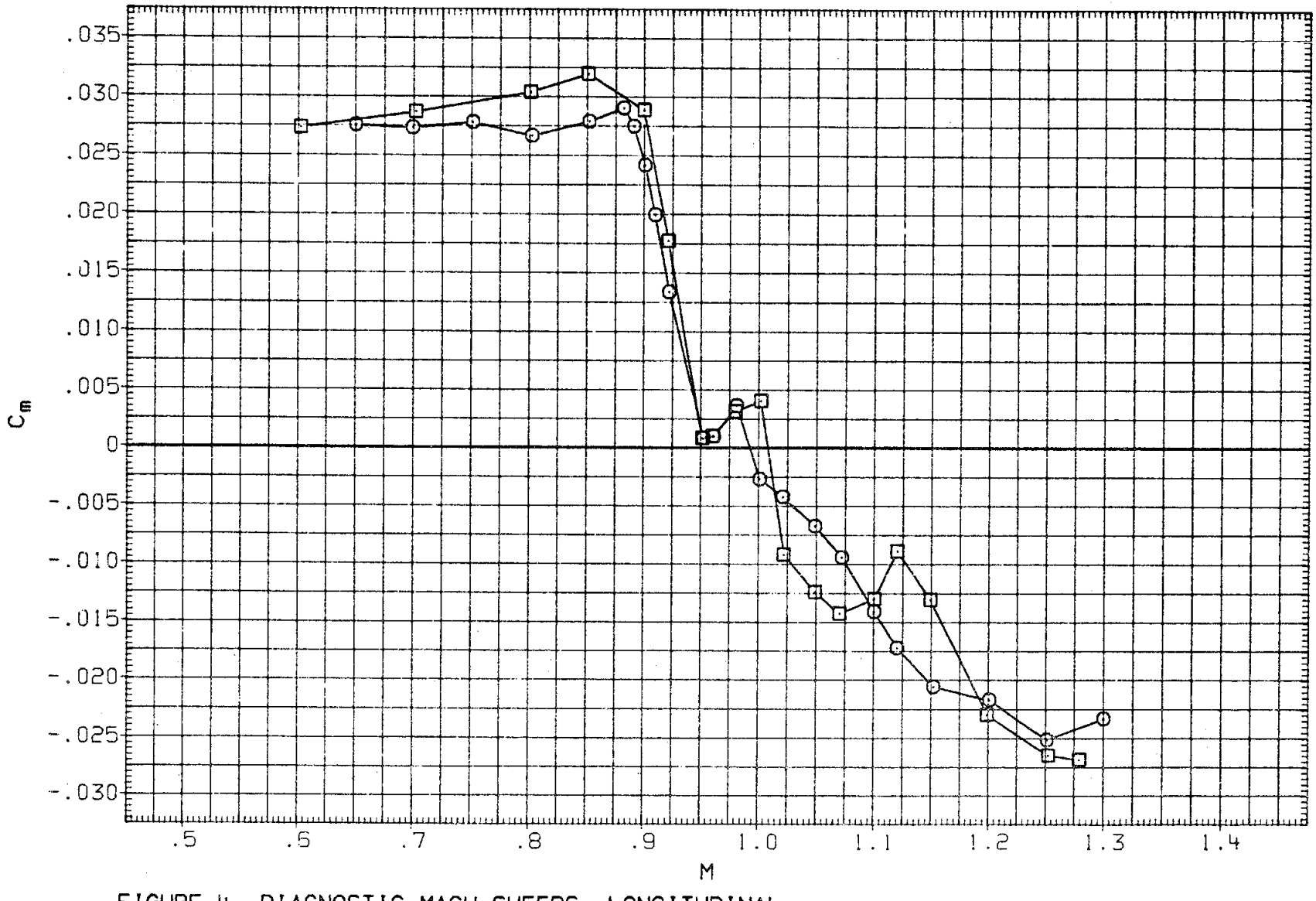

FIGURE 4. DIAGNOSTIC MACH SWEEPS, LONGITUDINAL

(C)ALPHA = 5.24

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0034	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F010	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	

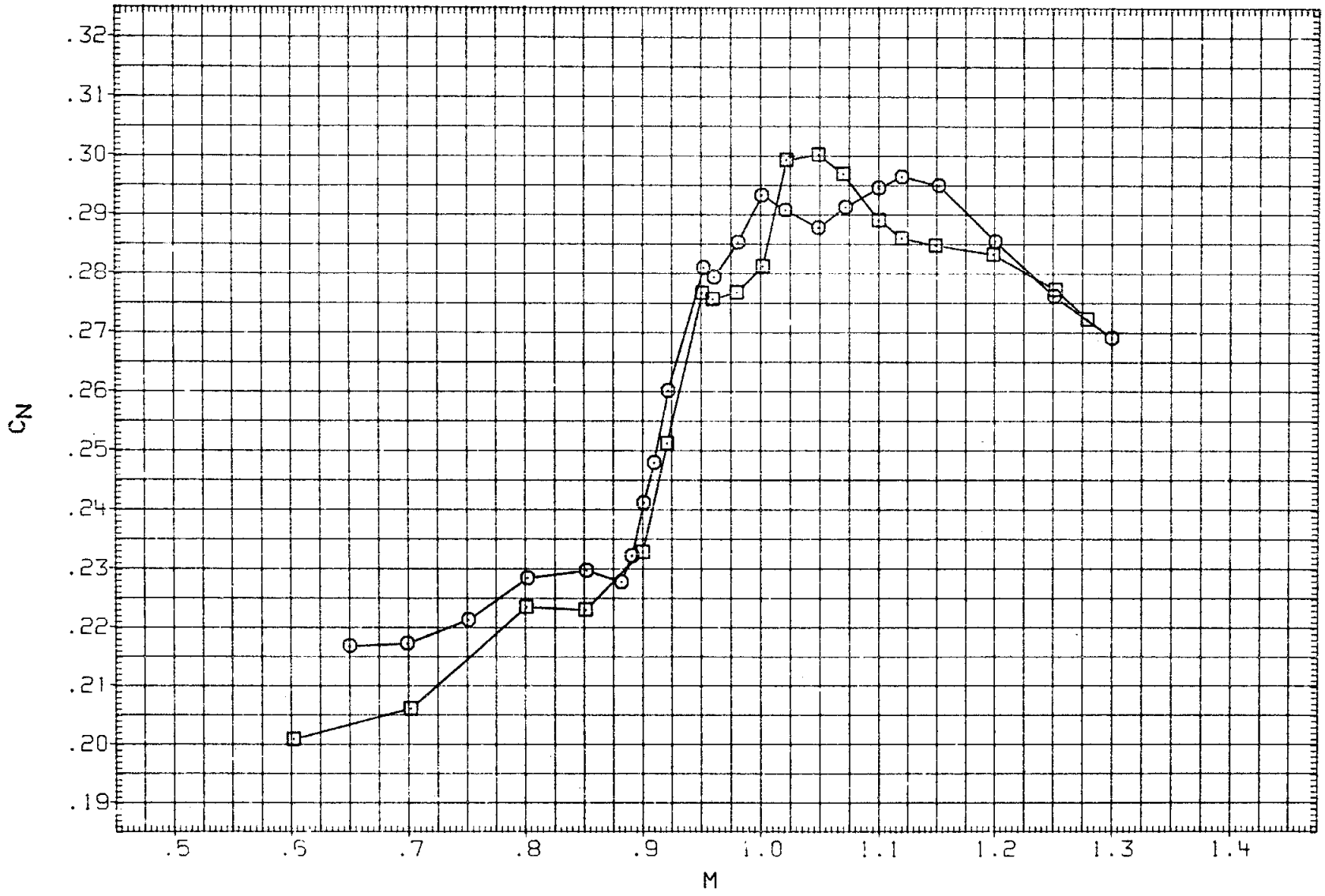

FIGURE 4. DIAGNOSTIC MACH SWEEPS, LONGITUDINAL

(C)ALPHA = 5.24

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0034	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F010	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	

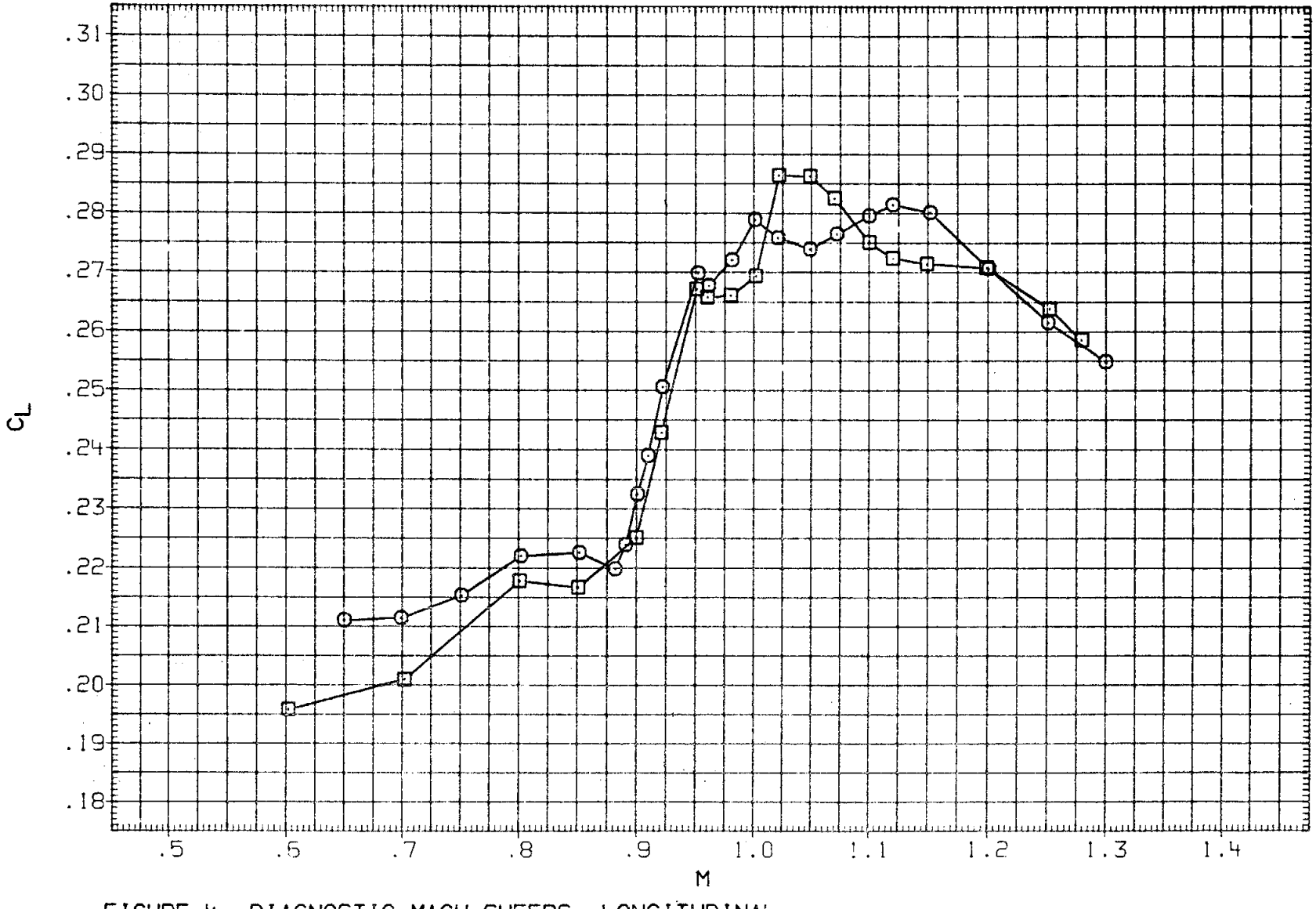

FIGURE 4. DIAGNOSTIC MACH SWEEPS, LONGITUDINAL

(C)ALPHA = 5.24

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0034	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F010	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	

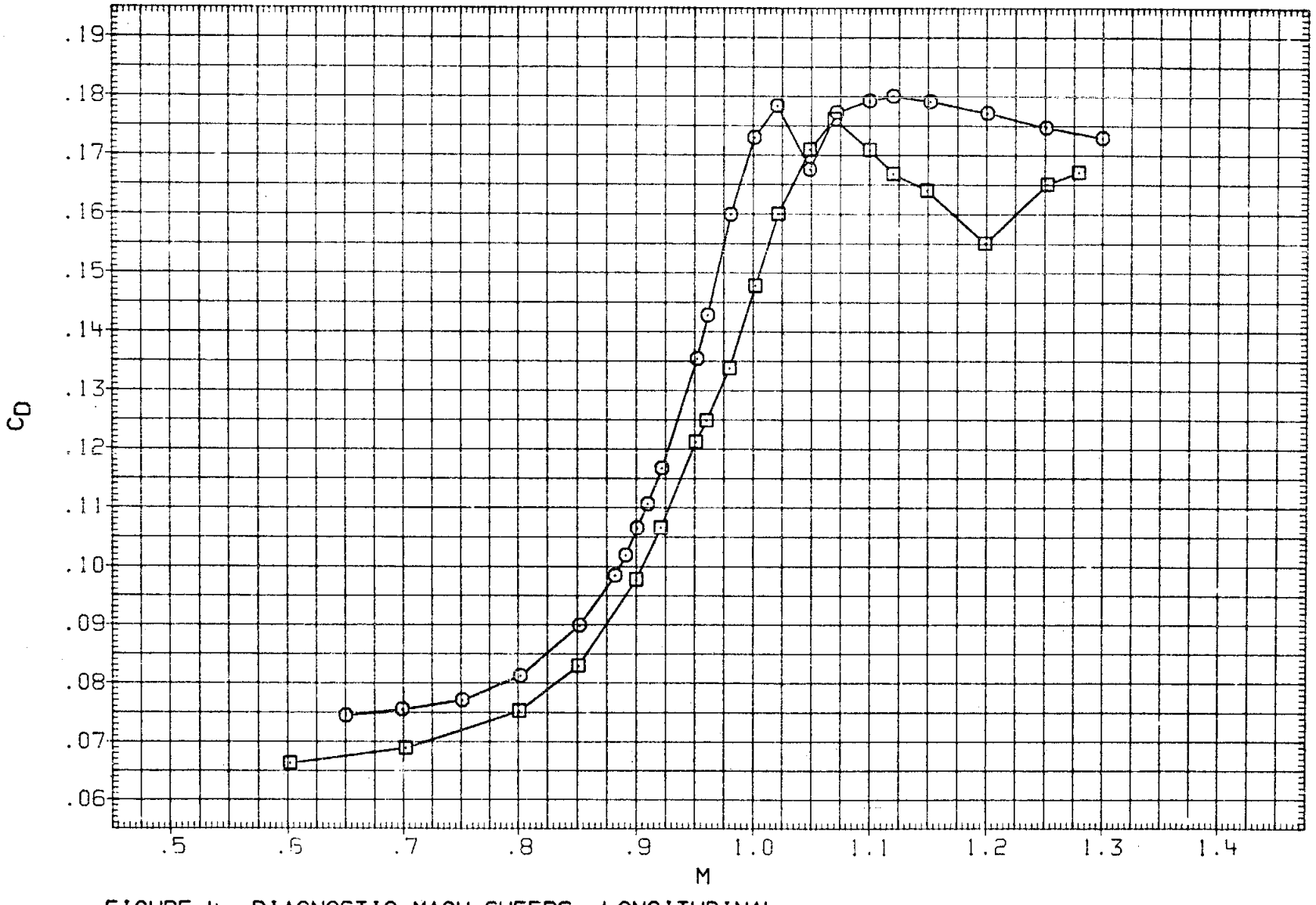

FIGURE 4. DIAGNOSTIC MACH SWEEPS, LONGITUDINAL

(C)ALPHA = 5.24

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKC034	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F010	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	

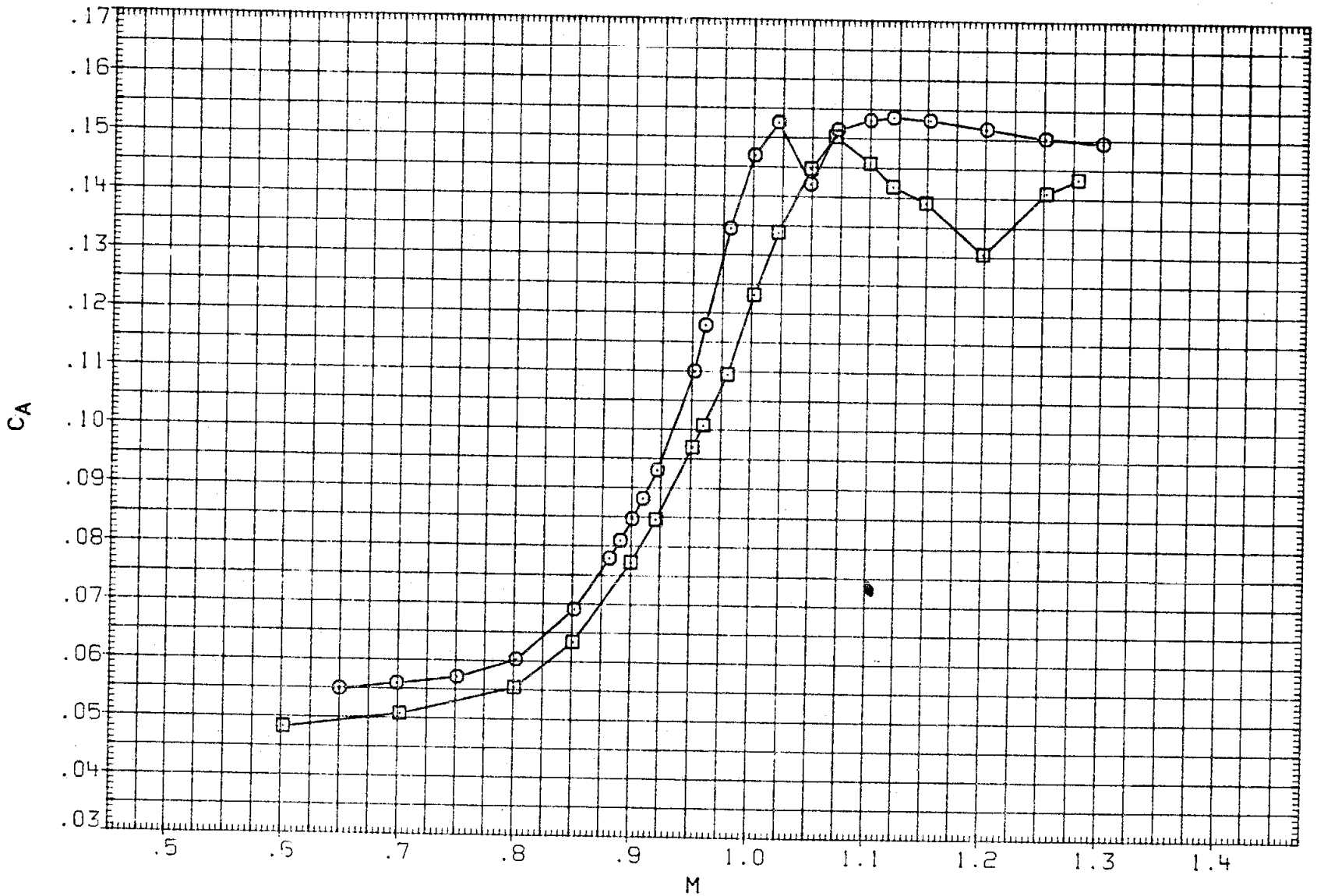

FIGURE 4. DIAGNOSTIC MACH SWEEPS, LONGITUDINAL

(C)ALPHA = 5.24

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0034	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F010	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	

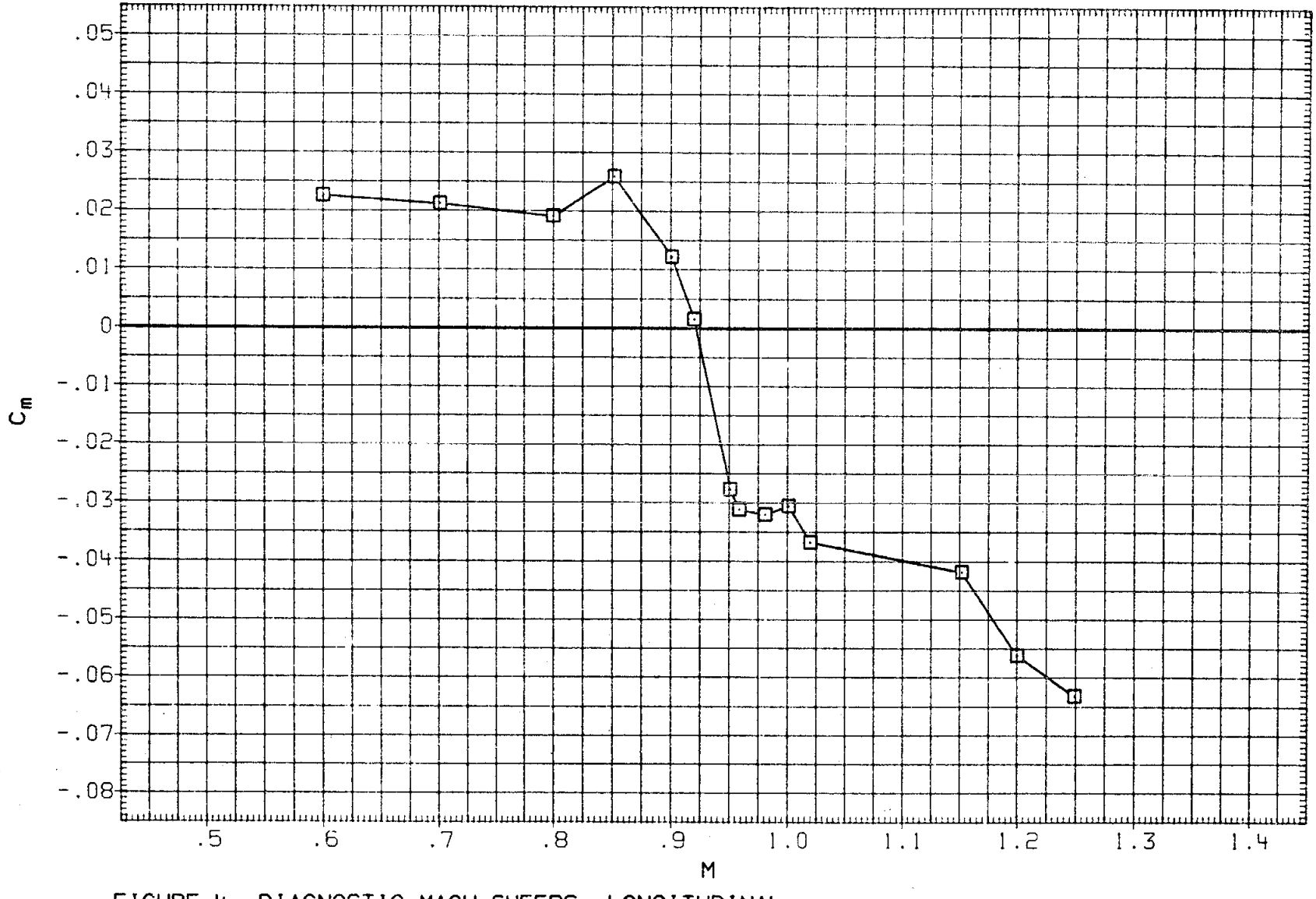

FIGURE 4. DIAGNOSTIC MACH SWEEPS, LONGITUDINAL

(D)ALPHA = 10.18

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0034	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F010	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	

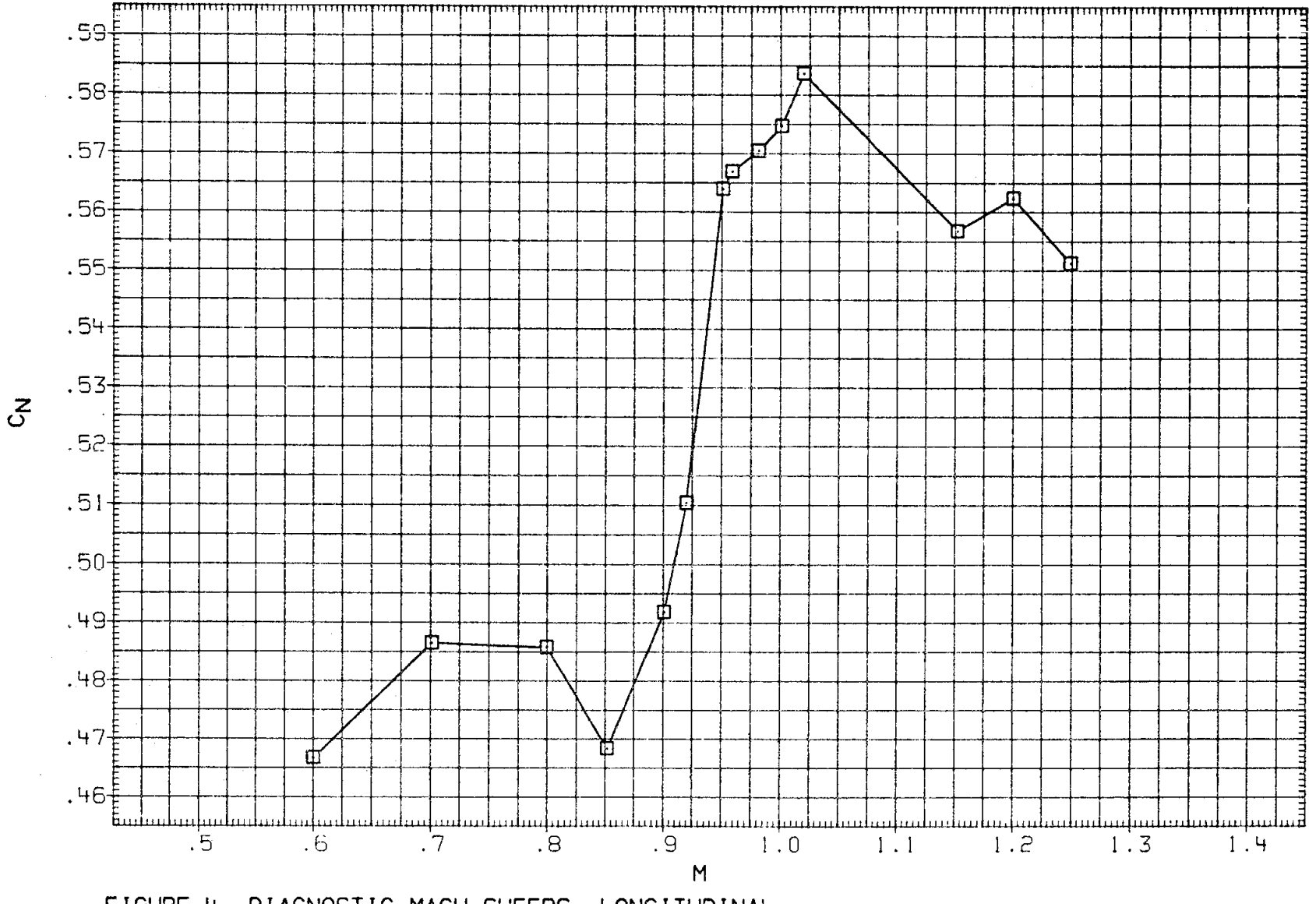

FIGURE 4. DIAGNOSTIC MACH SWEEPS, LONGITUDINAL

(D)ALPHA = 10.18

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0034	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK1041	□	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F010	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	

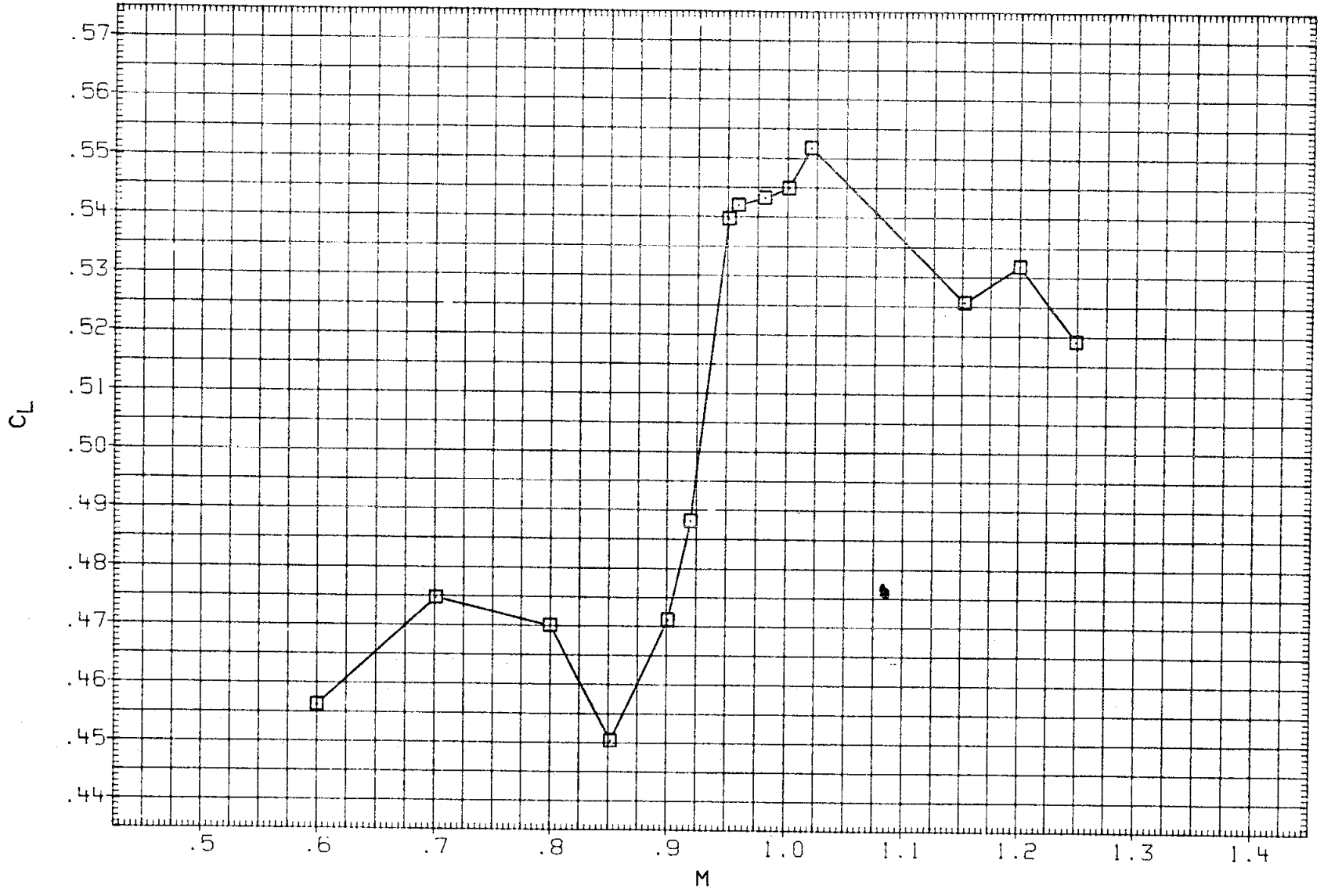

FIGURE 4. DIAGNOSTIC MACH SWEEPS, LONGITUDINAL

(D)ALPHA = 10.18

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0034	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F010	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	

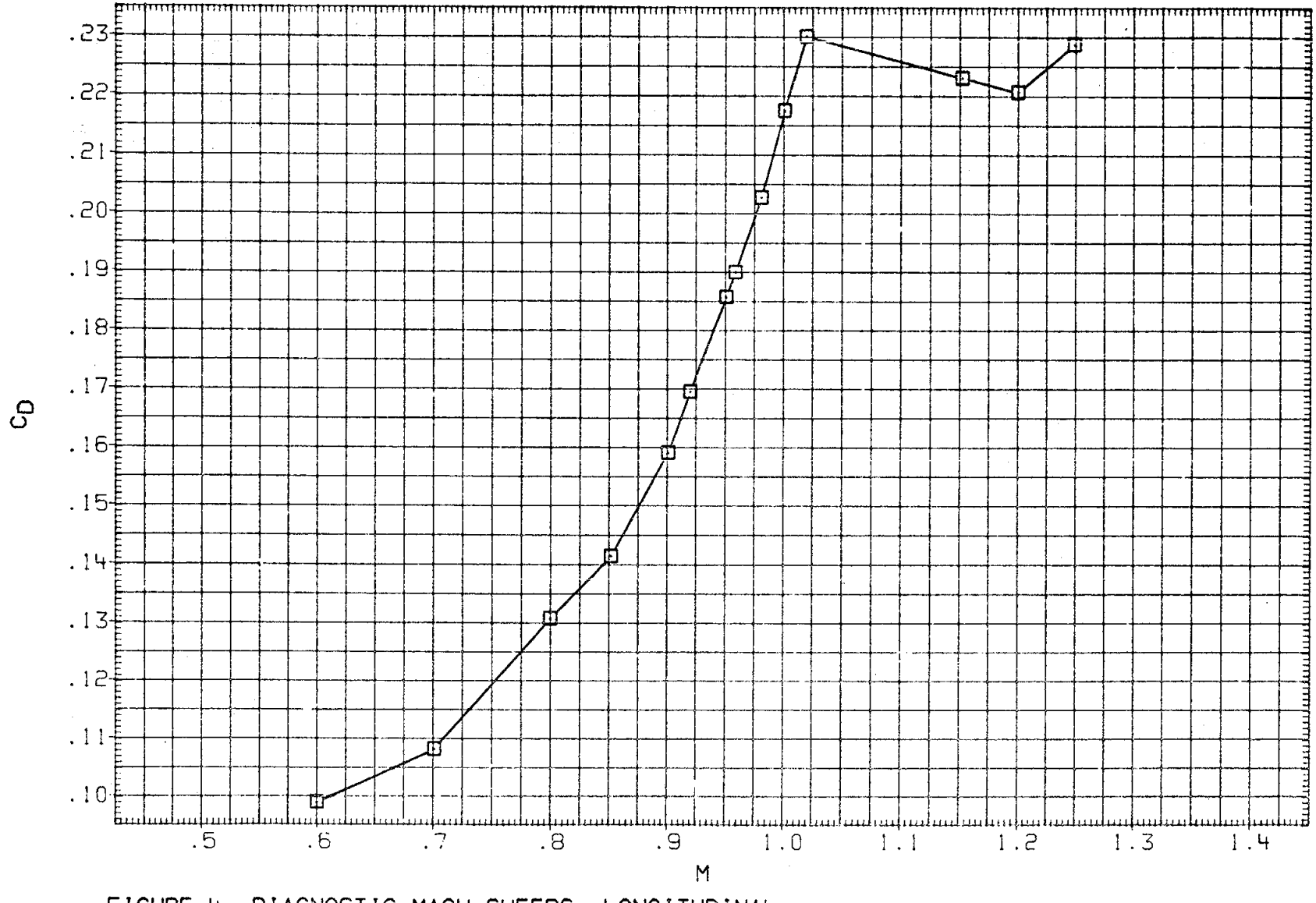

FIGURE 4. DIAGNOSTIC MACH SWEEPS, LONGITUDINAL

(D)ALPHA = 10.18

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0034	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F010	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	

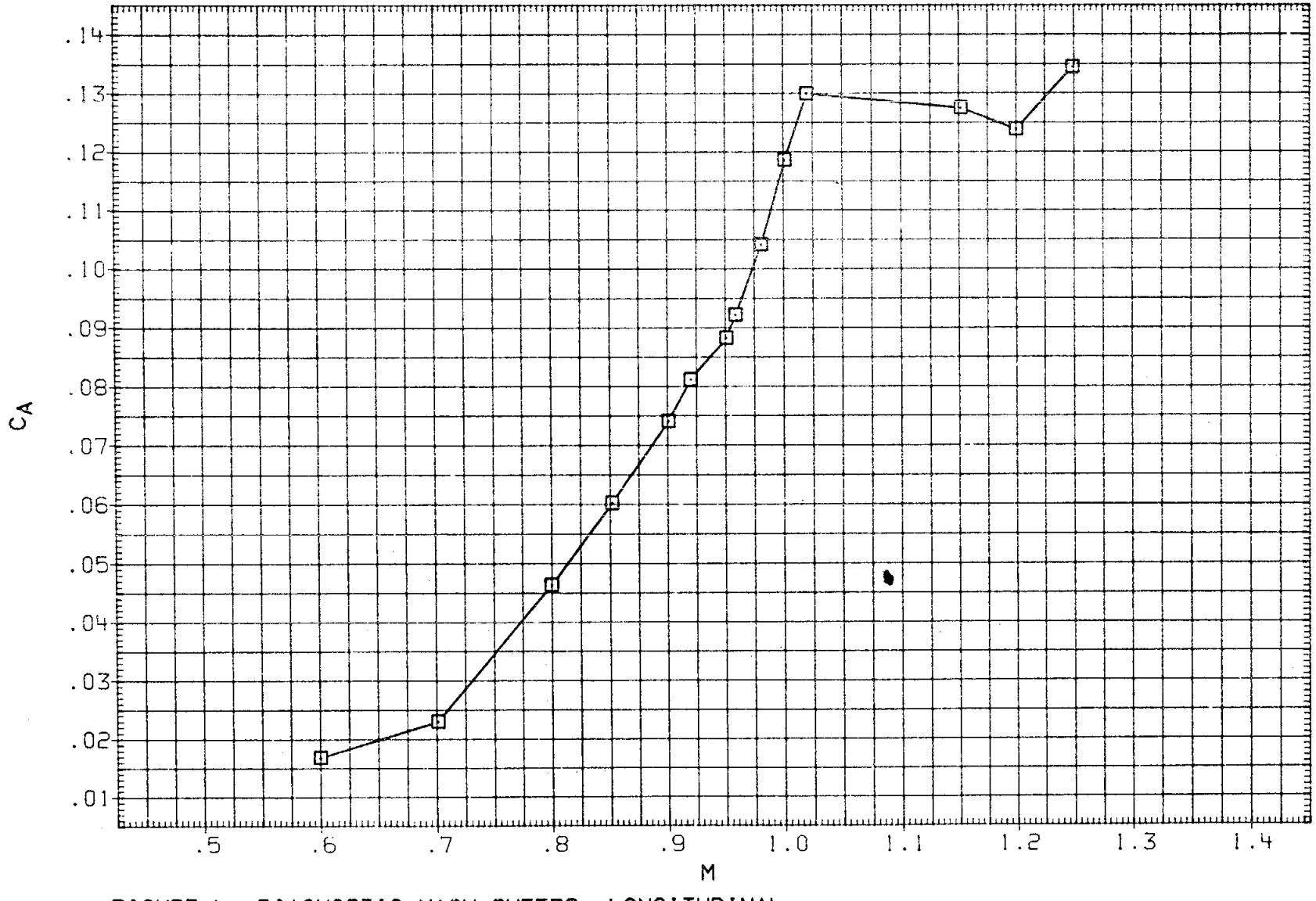

FIGURE 4. DIAGNOSTIC MACH SWEEPS, LONGITUDINAL

(D)ALPHA = 10.18

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0033	○	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000

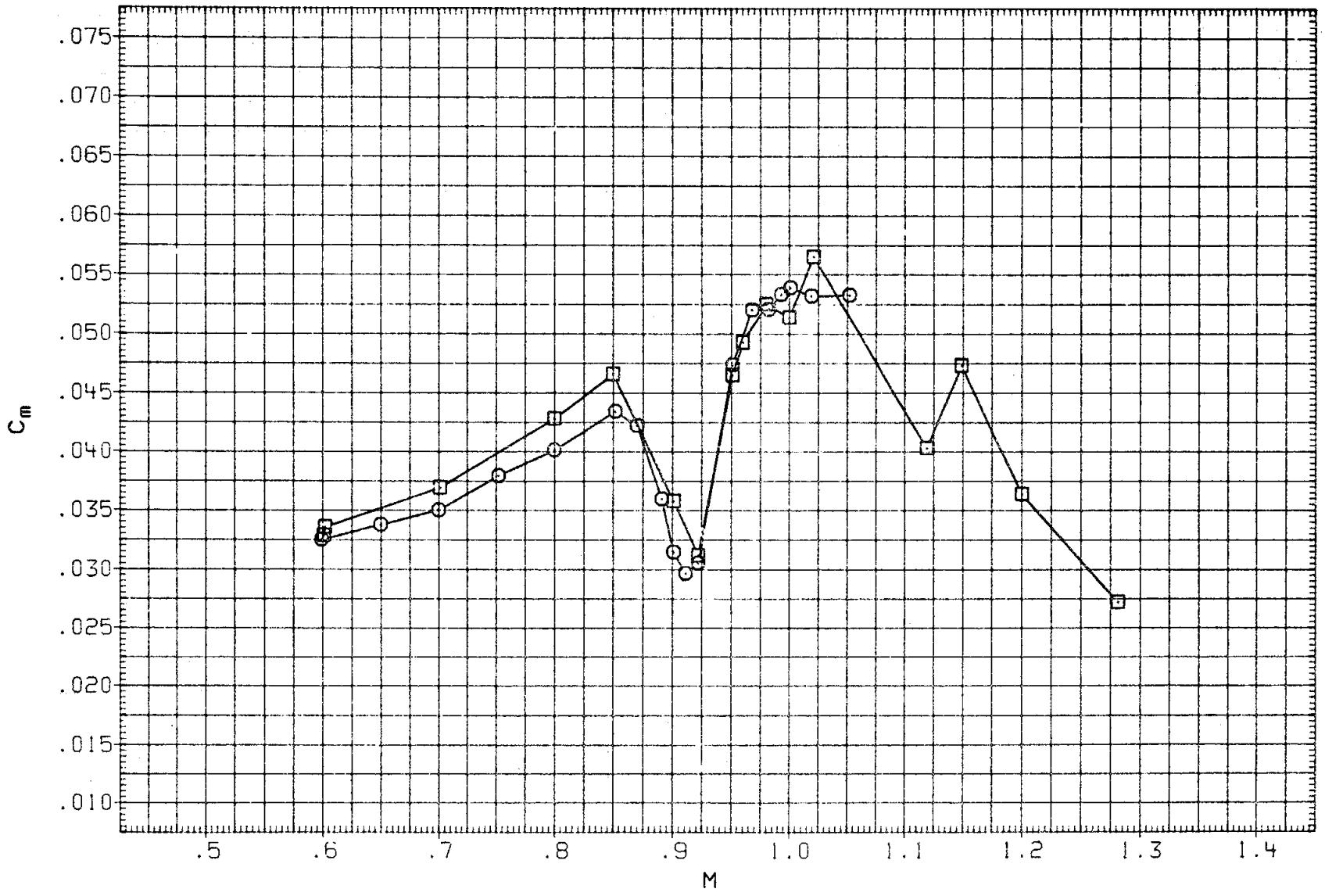

FIGURE 5. DIAGNOSTIC MACH SWEEPS, STING SHROUD ON

(A)ALPHA = .16

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0033	○	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000

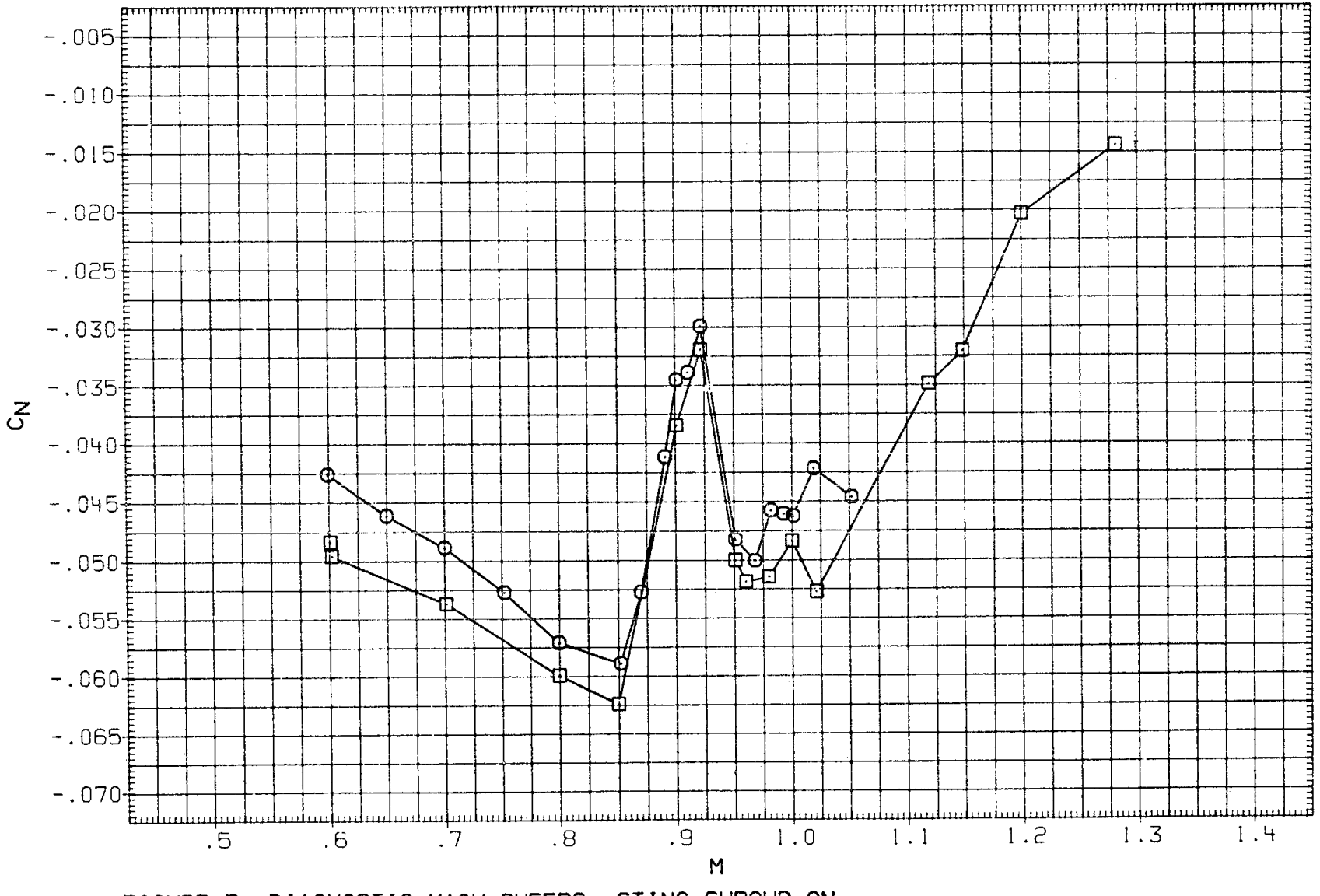

FIGURE 5. DIAGNOSTIC MACH SWEEPS, STING SHROUD ON

(A)ALPHA = .16

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0033	○	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000

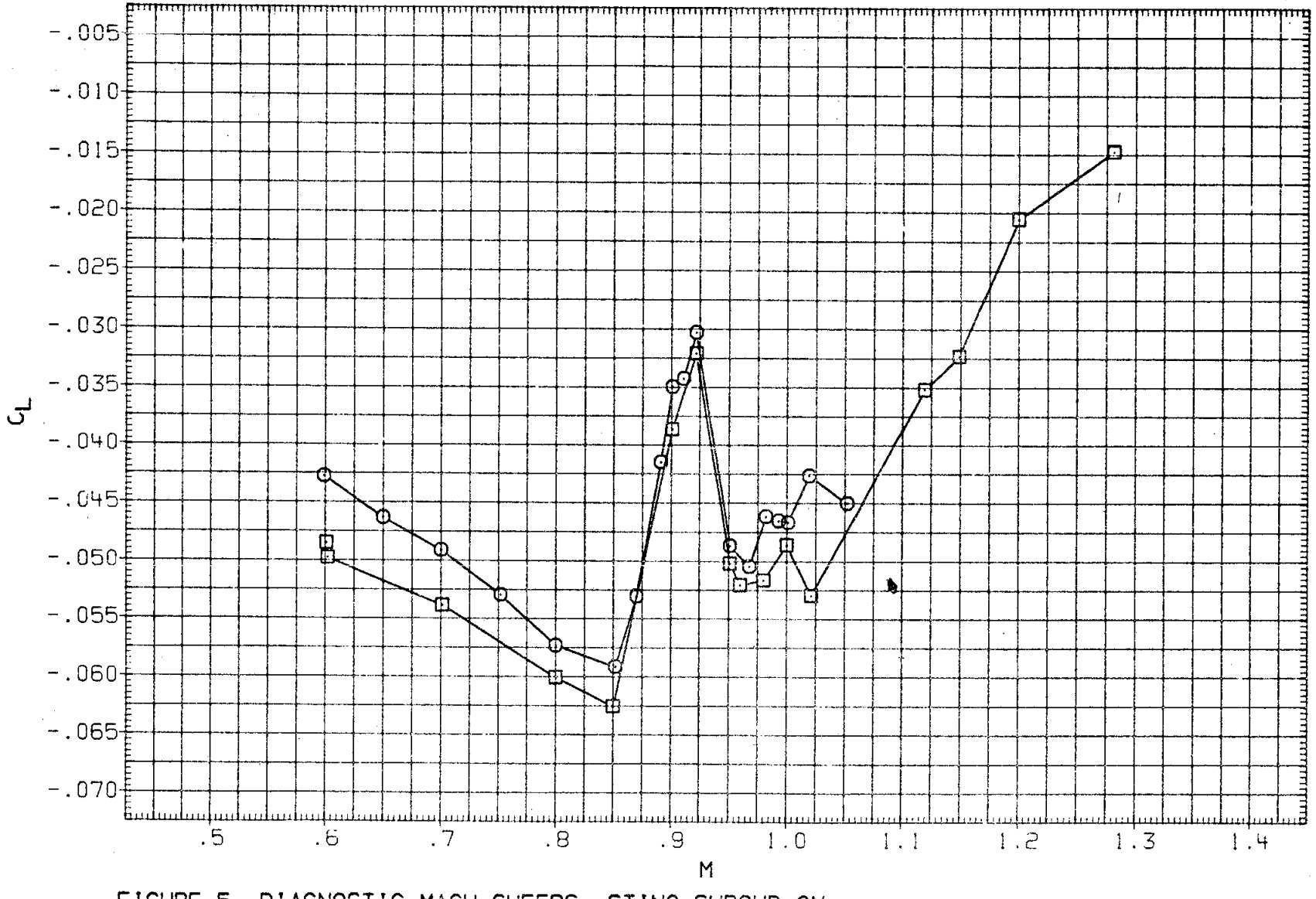

FIGURE 5. DIAGNOSTIC MACH SWEEPS, STING SHROUD ON

(A)ALPHA = .16

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0033	○	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000

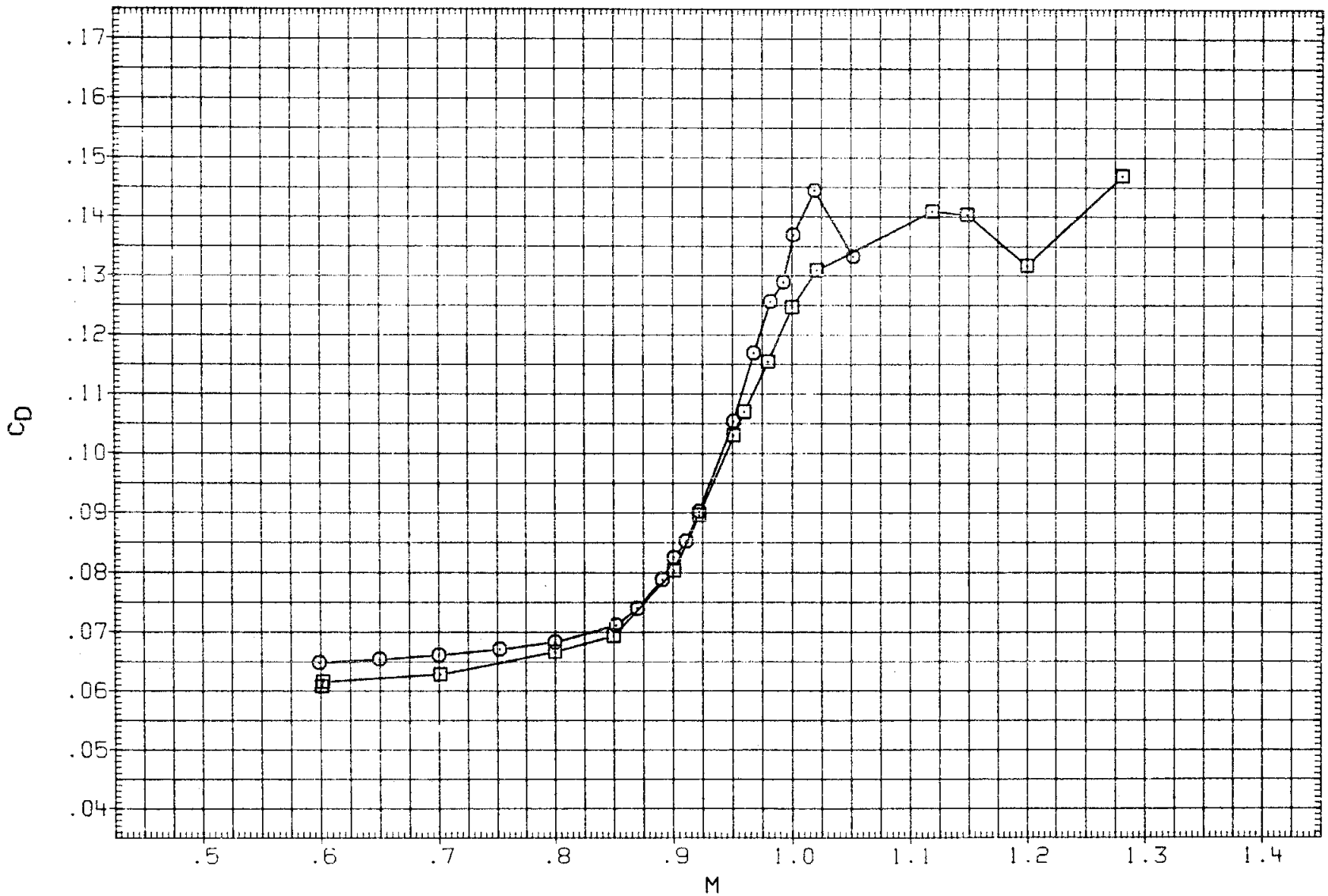

FIGURE 5. DIAGNOSTIC MACH SWEEPS, STING SHROUD ON

(A) ALPHA = .16

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0033	○	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000

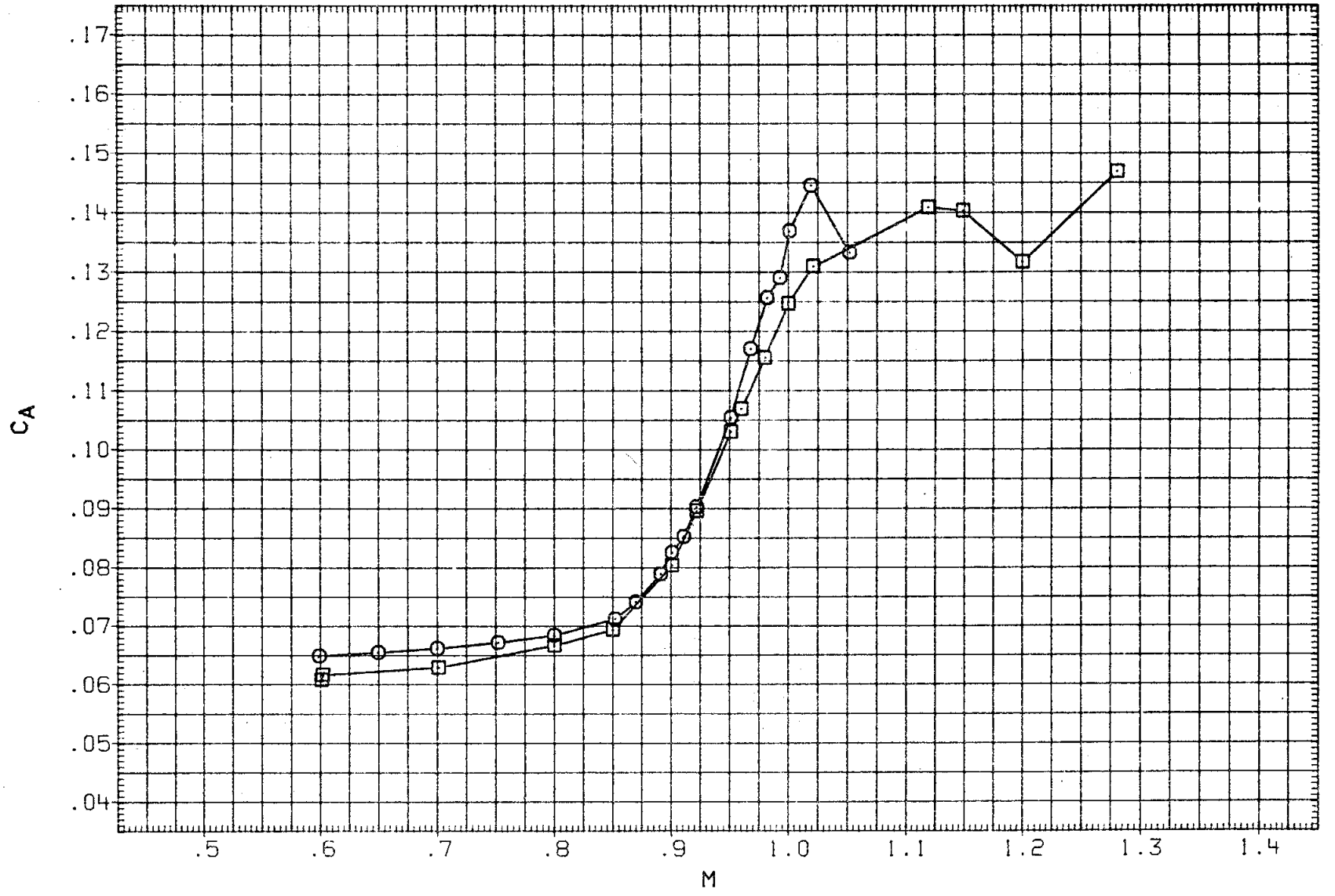

FIGURE 5. DIAGNOSTIC MACH SWEEPS, STING SHROUD ON

(A)ALPHA = .16

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0033	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000

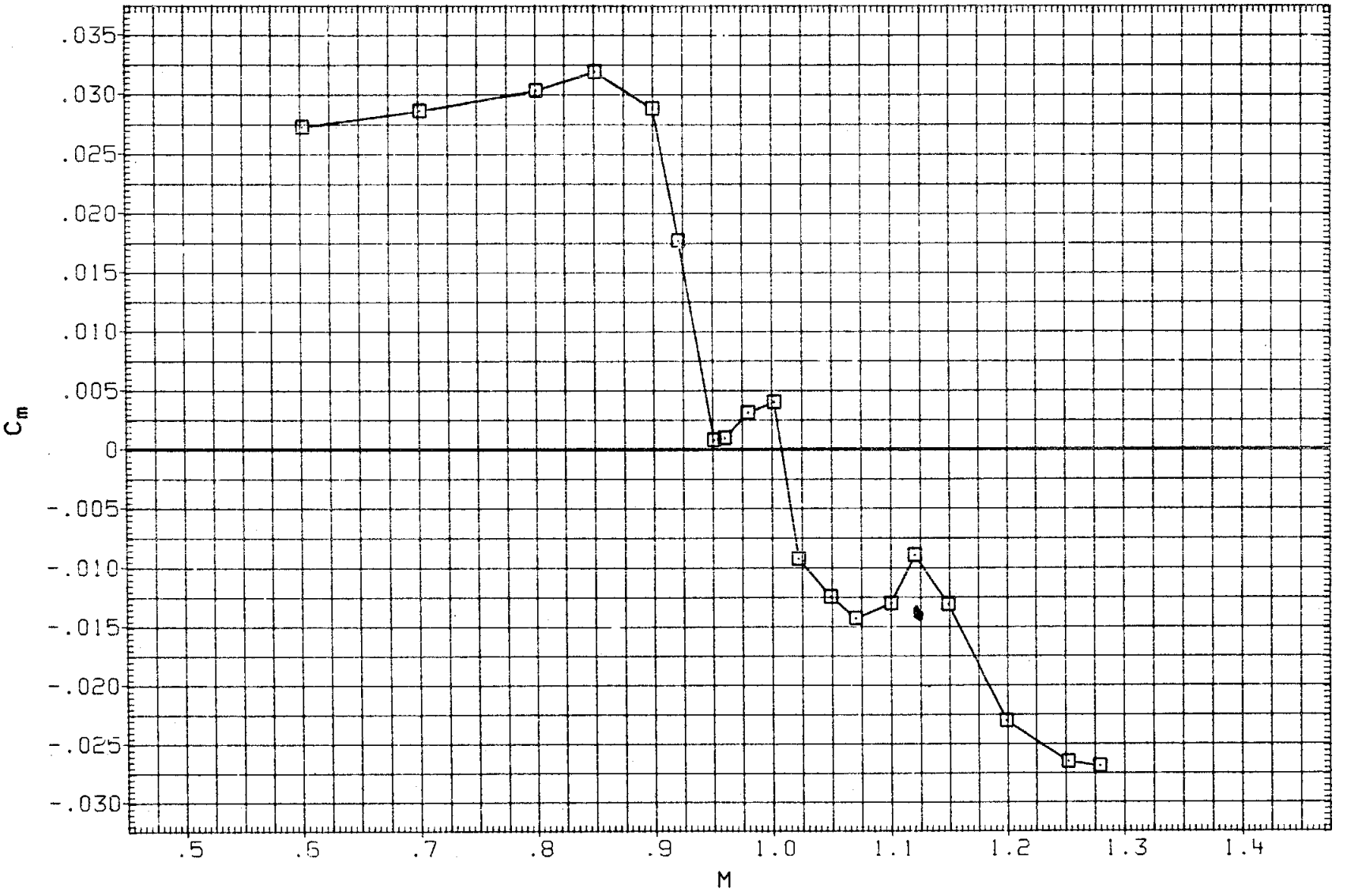

FIGURE 5. DIAGNOSTIC MACH SWEEPS, STING SHROUD ON

(B)ALPHA = 5.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0033	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000

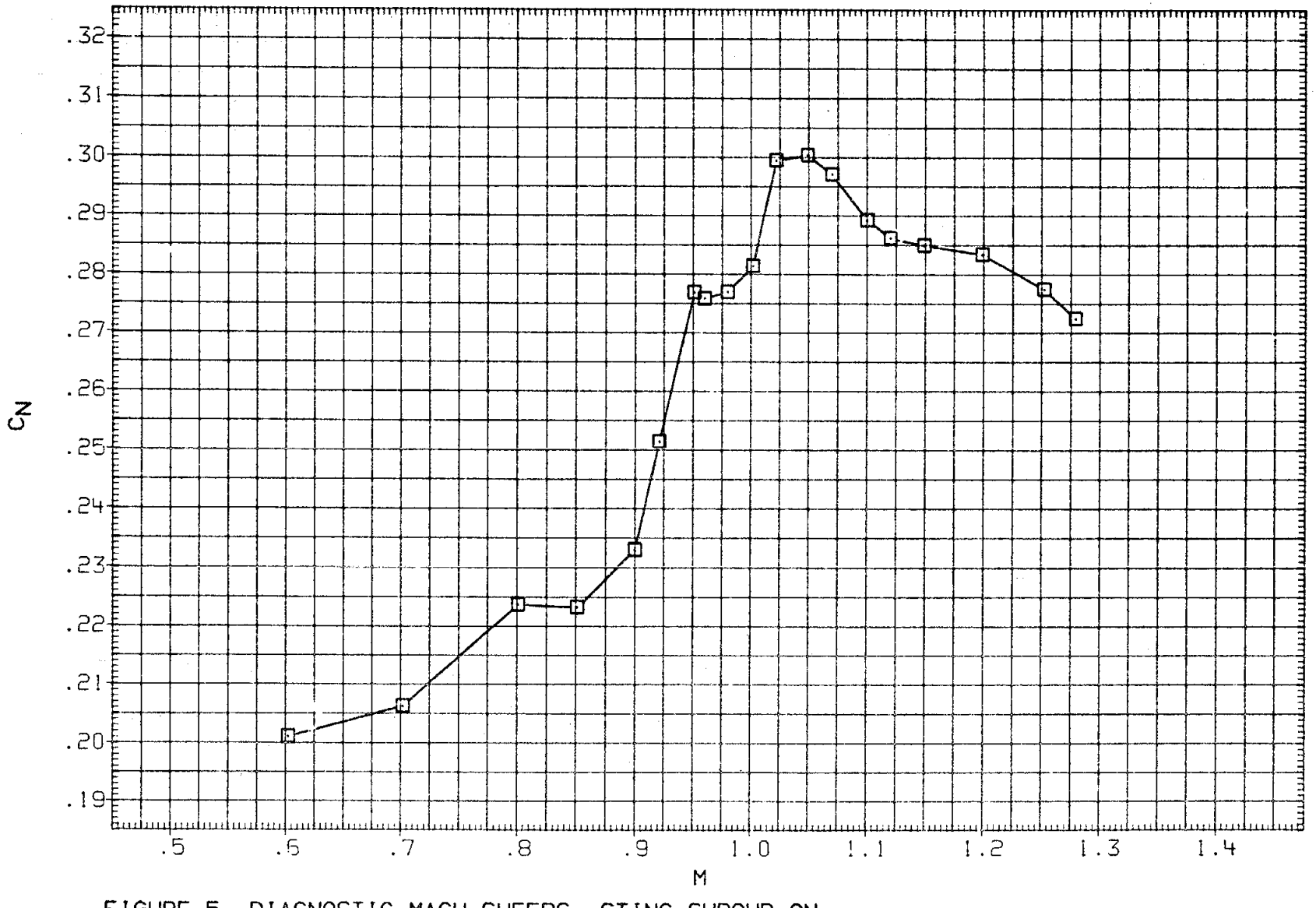

FIGURE 5. DIAGNOSTIC MACH SWEEPS, STING SHROUD ON

(B)ALPHA = 5.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0033	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000

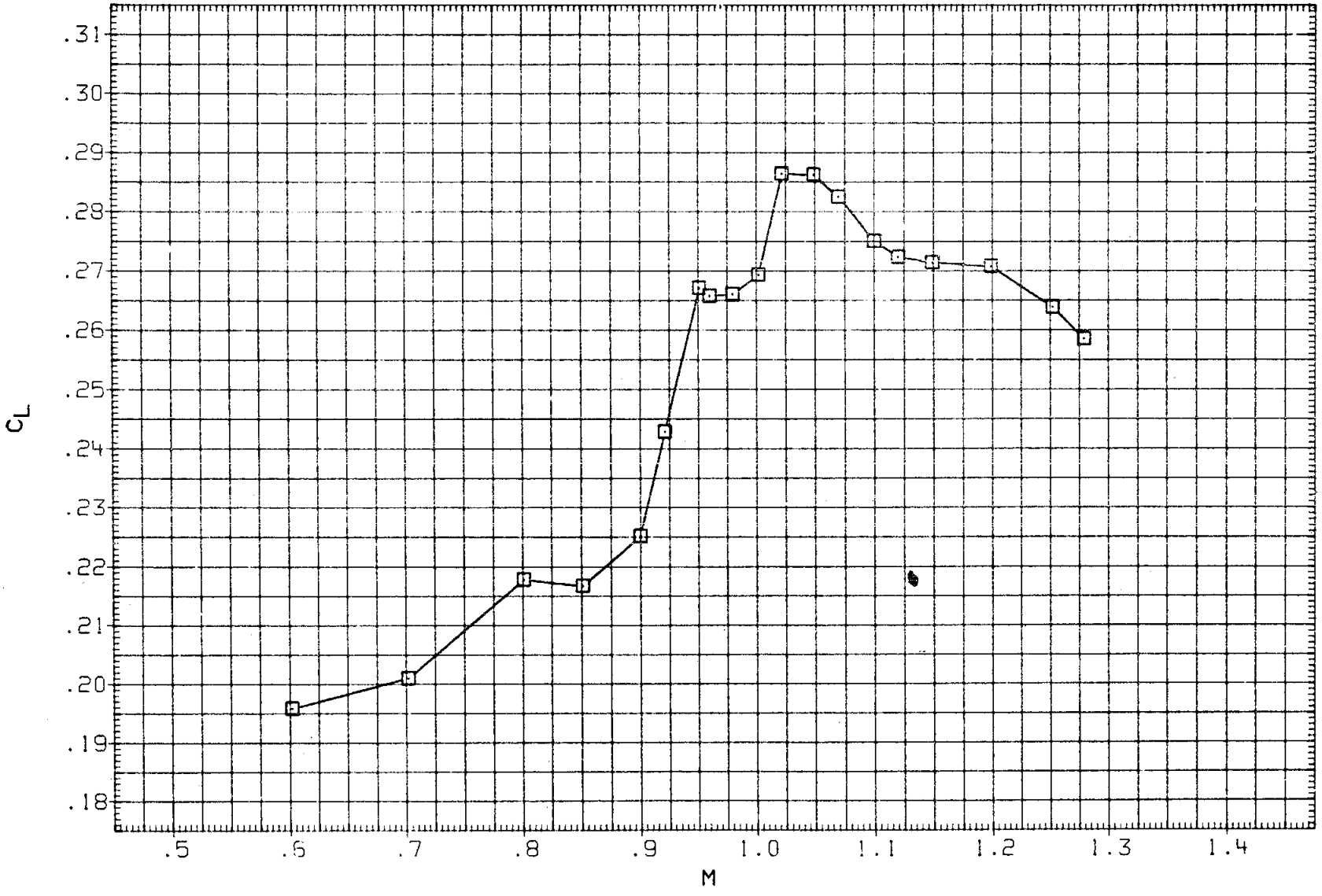

FIGURE 5. DIAGNOSTIC MACH SWEEPS, STING SHROUD ON

(B) ALPHA = 5.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0033	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000

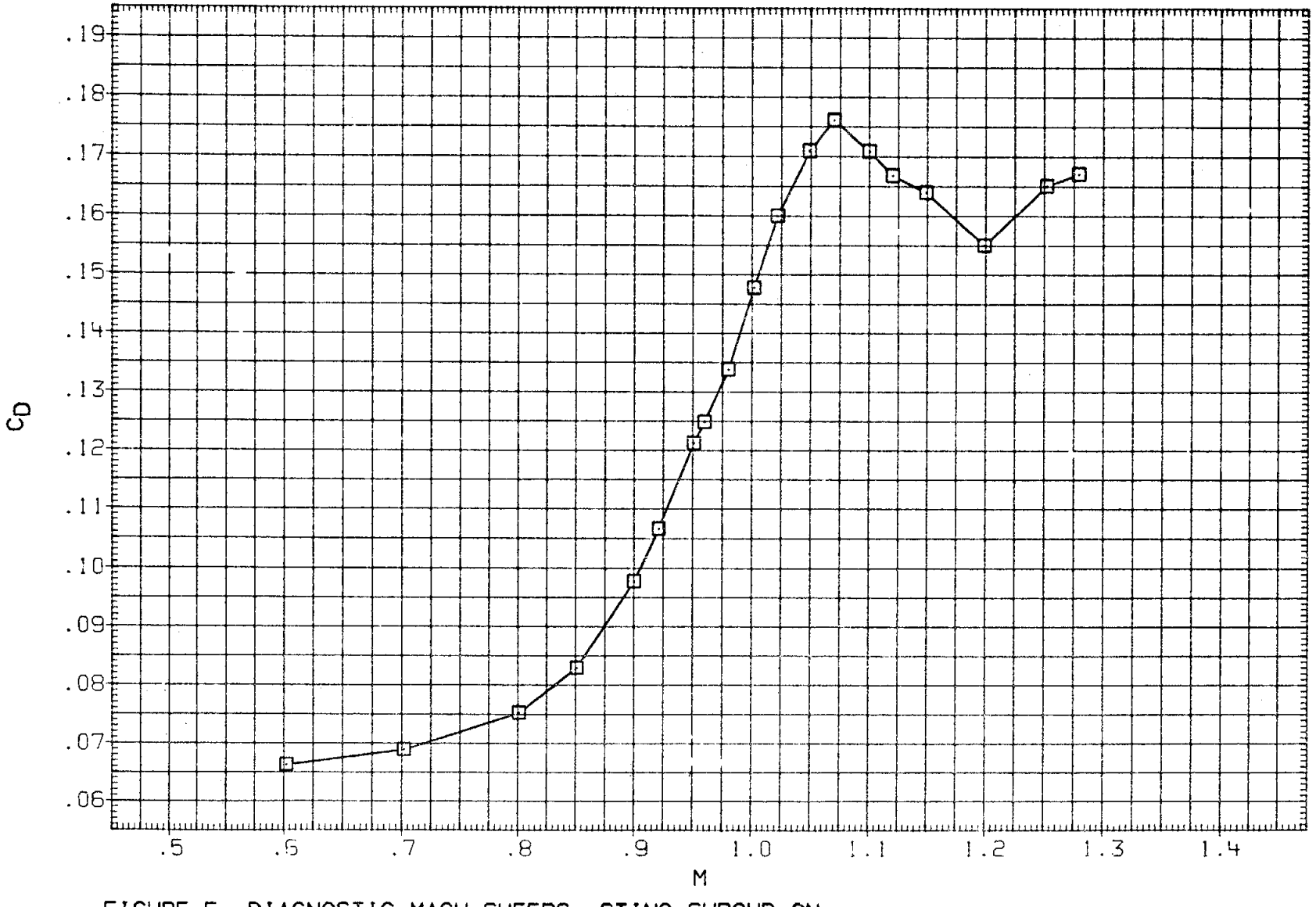

FIGURE 5. DIAGNOSTIC MACH SWEEPS, STING SHROUD ON

(B)ALPHA = 5.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0033	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000

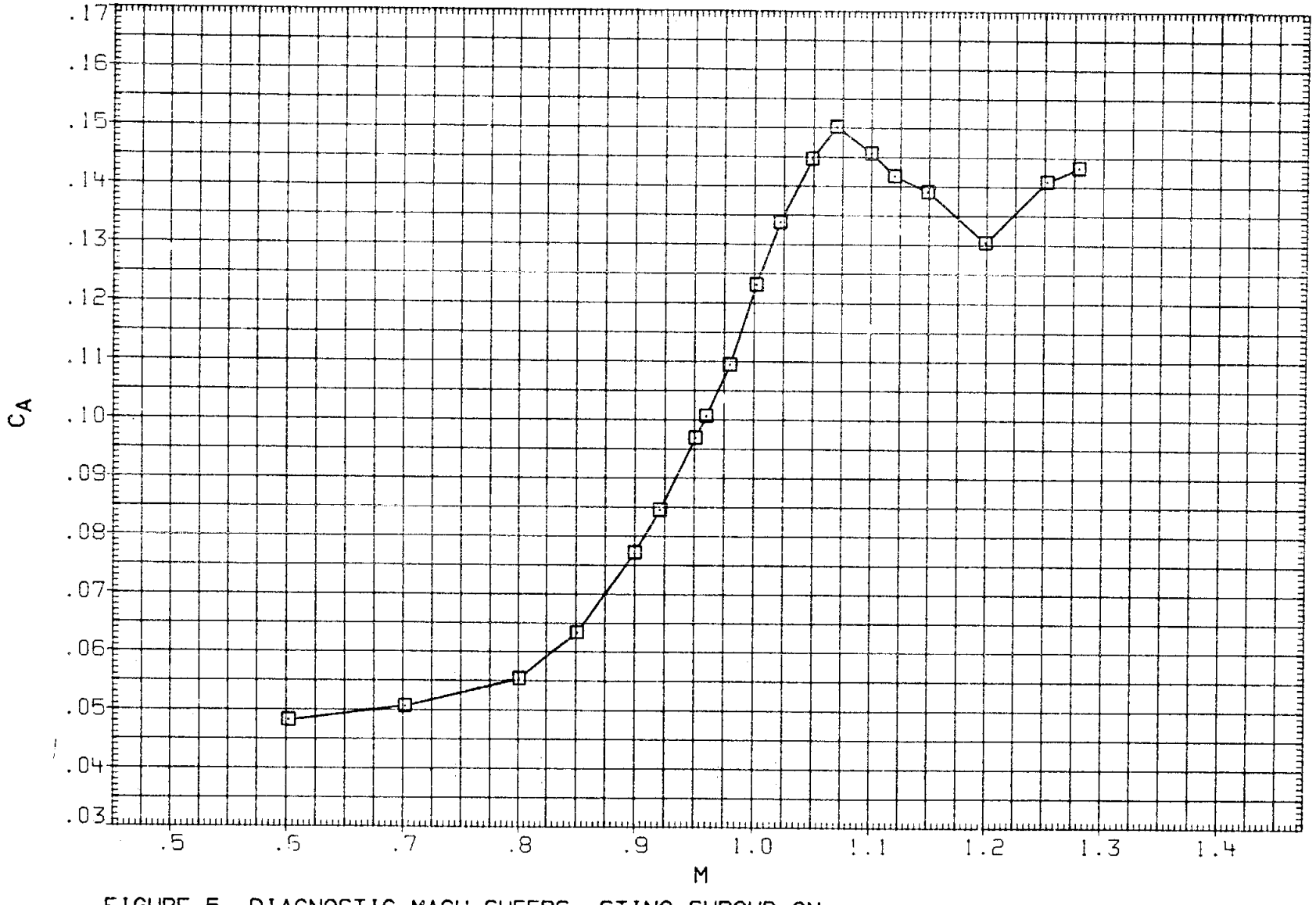

FIGURE 5. DIAGNOSTIC MACH SWEEPS, STING SHROUD ON

(B)ALPHA = 5.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0033	○	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000

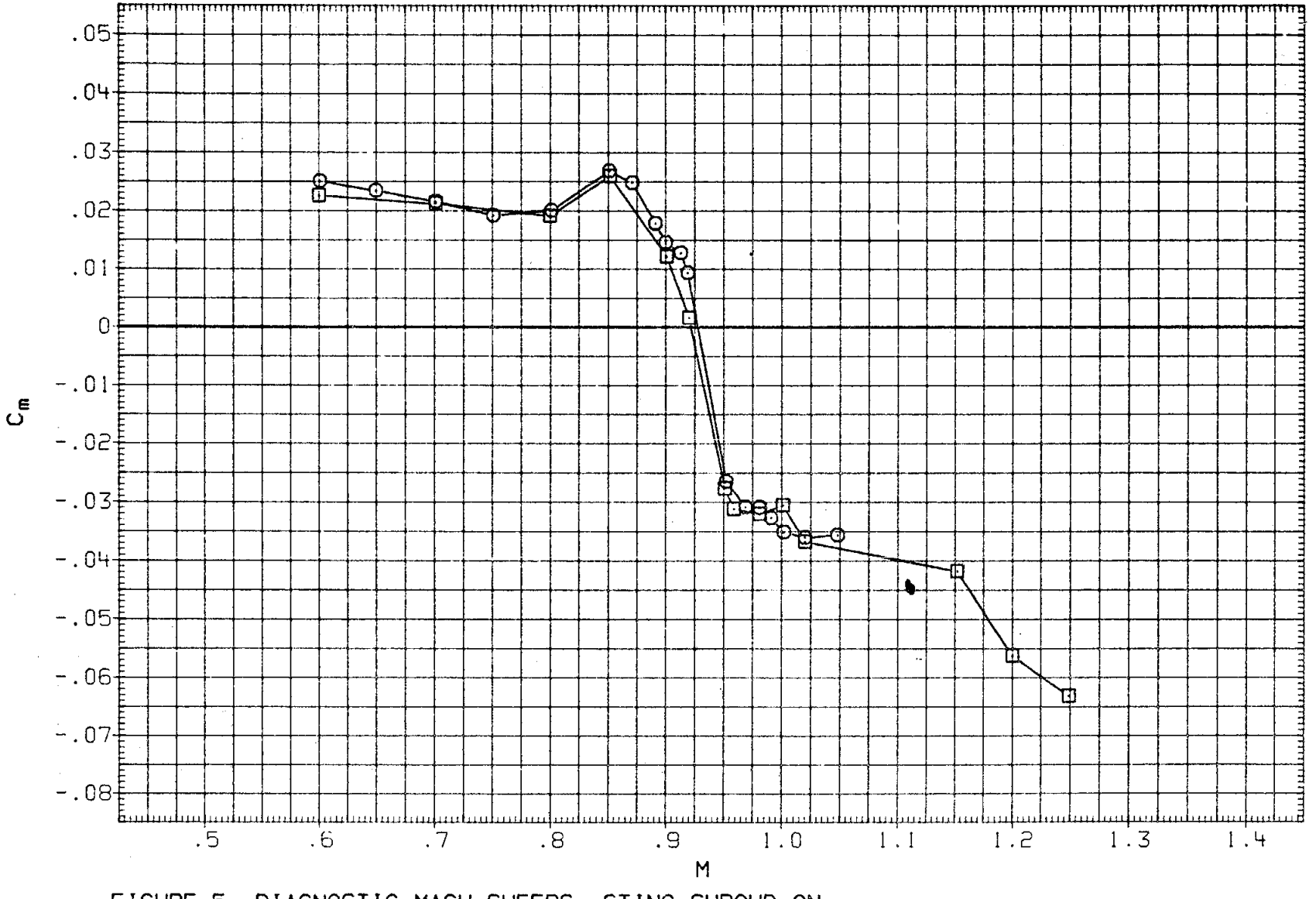

FIGURE 5. DIAGNOSTIC MACH SWEEPS, STING SHROUD ON

(C)ALPHA = 10.08

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0033	○	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000

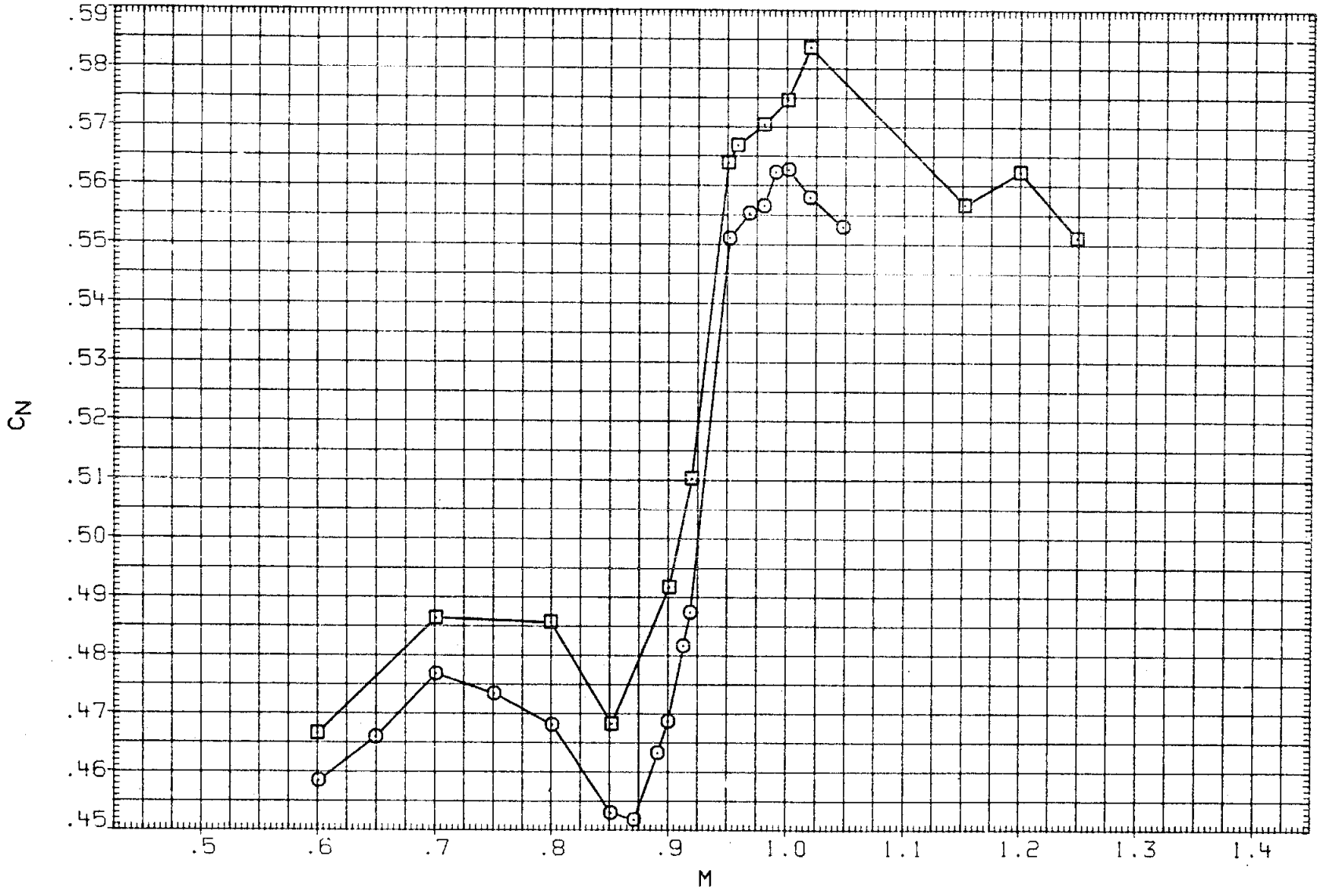

FIGURE 5. DIAGNOSTIC MACH SWEEPS, STING SHROUD ON

(C)ALPHA = 10.08

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0033	○	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000

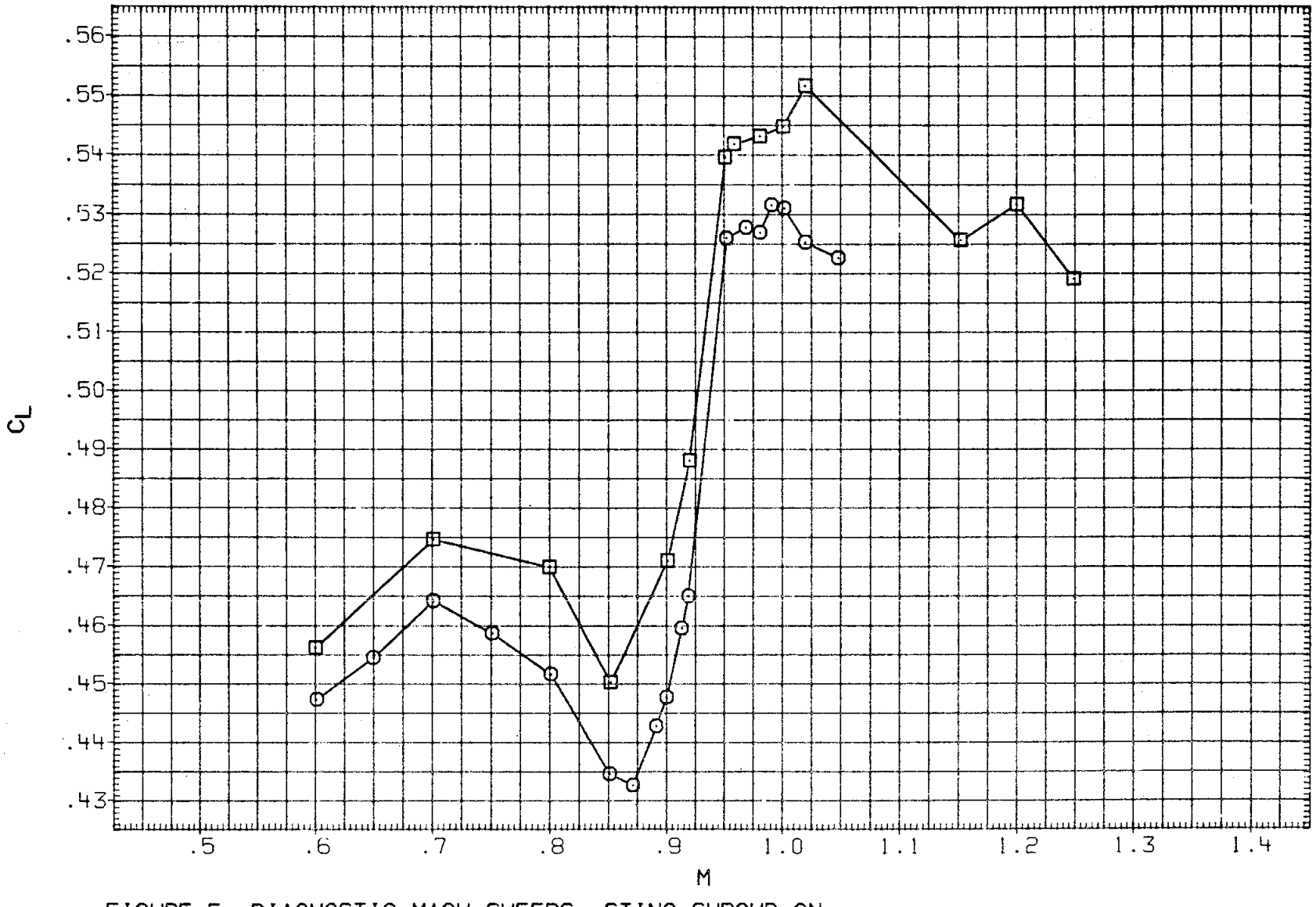

FIGURE 5. DIAGNOSTIC MACH SWEEPS, STING SHROUD ON

(C)ALPHA = 10.08

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0033	○	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000

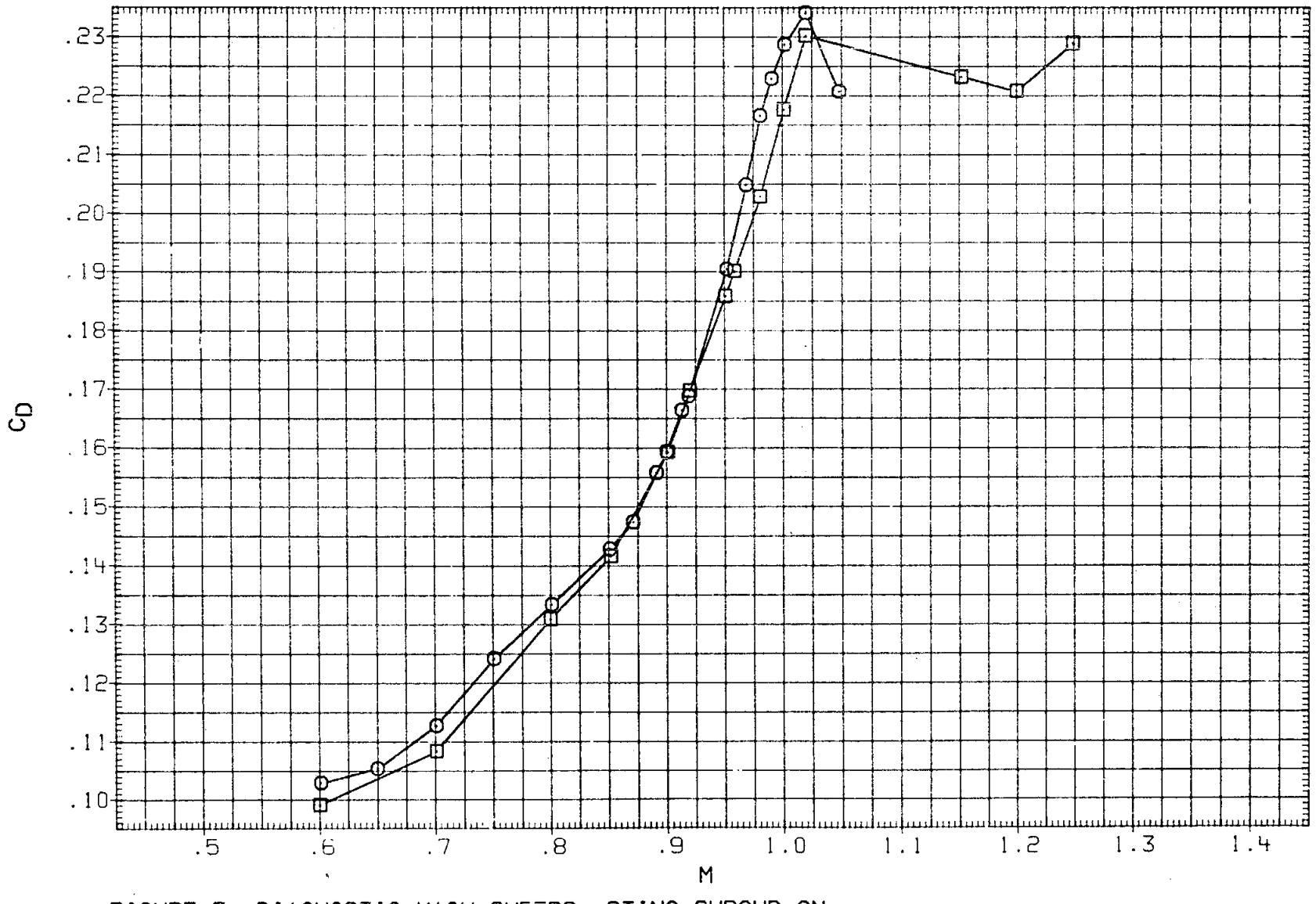

FIGURE 5. DIAGNOSTIC MACH SWEEPS, STING SHROUD ON

(C)ALPHA = 10.08

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0033	○	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000

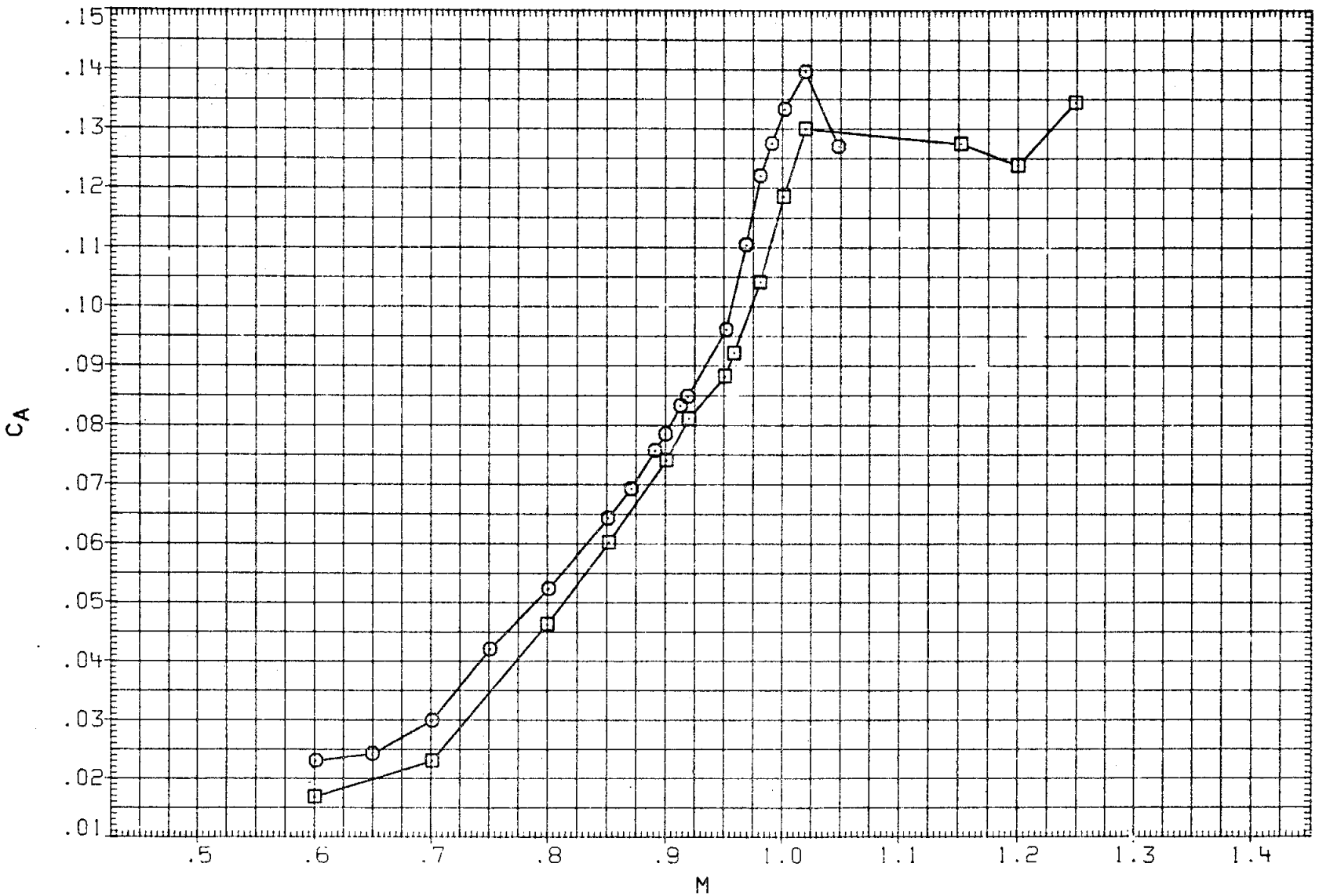

FIGURE 5. DIAGNOSTIC MACH SWEEPS, STING SHROUD ON

(C)ALPHA = 10.08

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0034	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
RK0035	◇	DATA NOT AVAILABLE	2.000	.000	.000	.000	25.500	-.030	.000
RKN044	△	DATA NOT AVAILABLE	2.000	.000	.000	.000	25.000	.000	.000

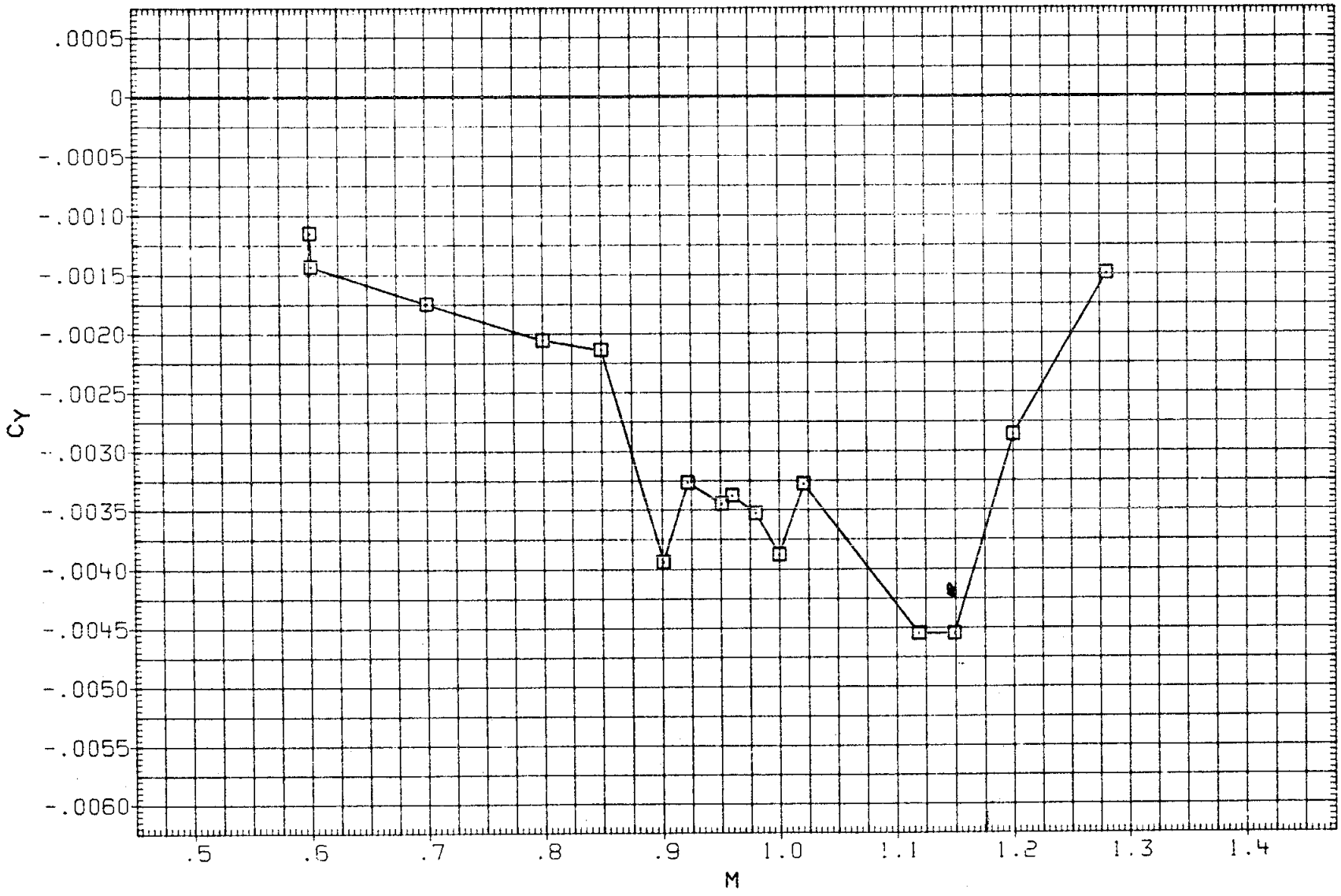

FIGURE 6. DIAGNOSTIC MACH SWEEPS,LATERAL-DIRECTIONAL

(A)ALPHA = .16

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0034	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
RK0035	◇	DATA NOT AVAILABLE	2.000	.000	.000	.000	25.500	-.030	.000
RKN044	△	DATA NOT AVAILABLE	2.000	.000	.000	.000	25.000	.000	.000

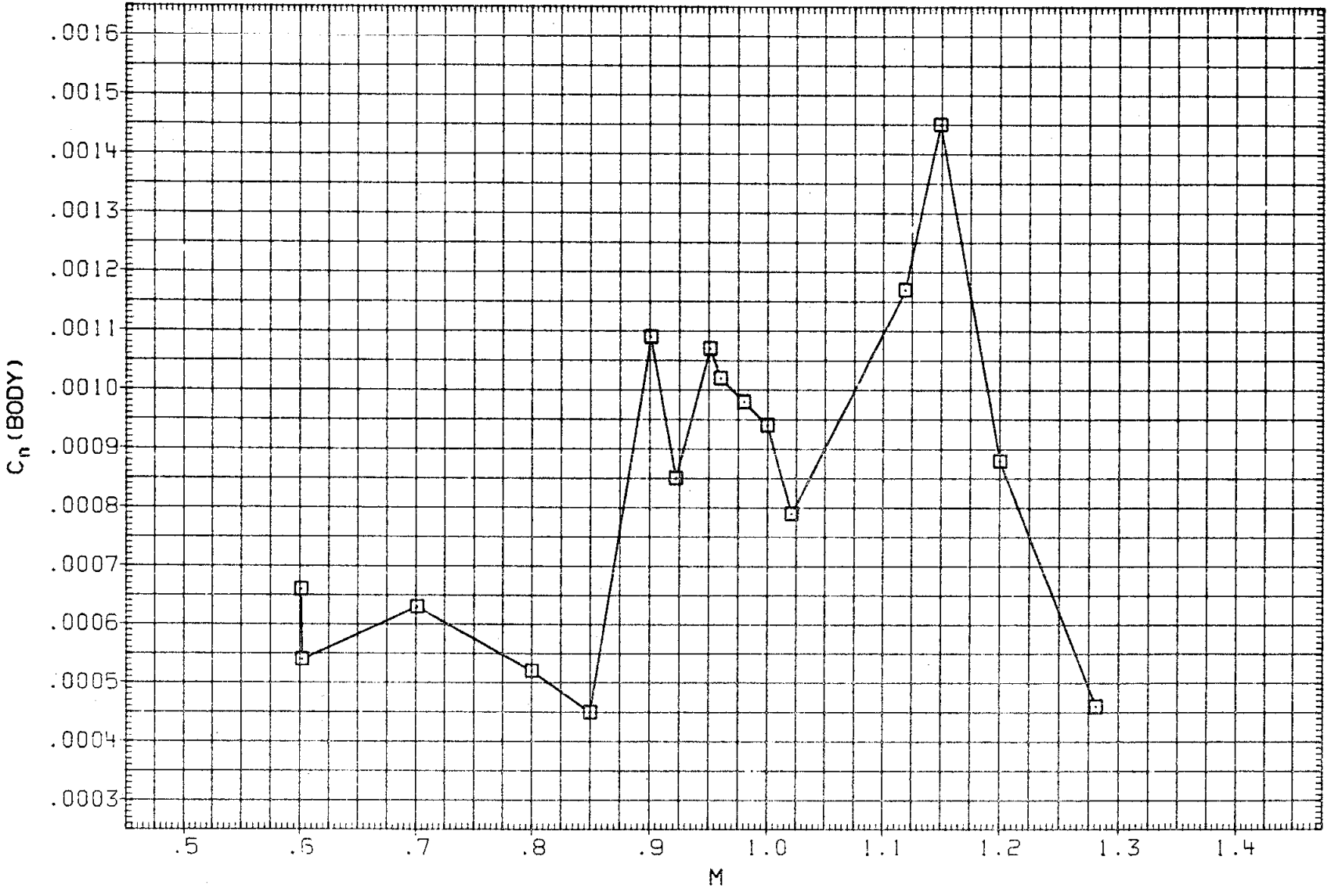

FIGURE 6. DIAGNOSTIC MACH SWEEPS,LATERAL-DIRECTIONAL

(A)ALPHA = .16

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0034	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
RK0035	◇	DATA NOT AVAILABLE	2.000	.000	.000	.000	25.500	-.030	.000
RKN044	△	DATA NOT AVAILABLE	2.000	.000	.000	.000	25.000	.000	.000

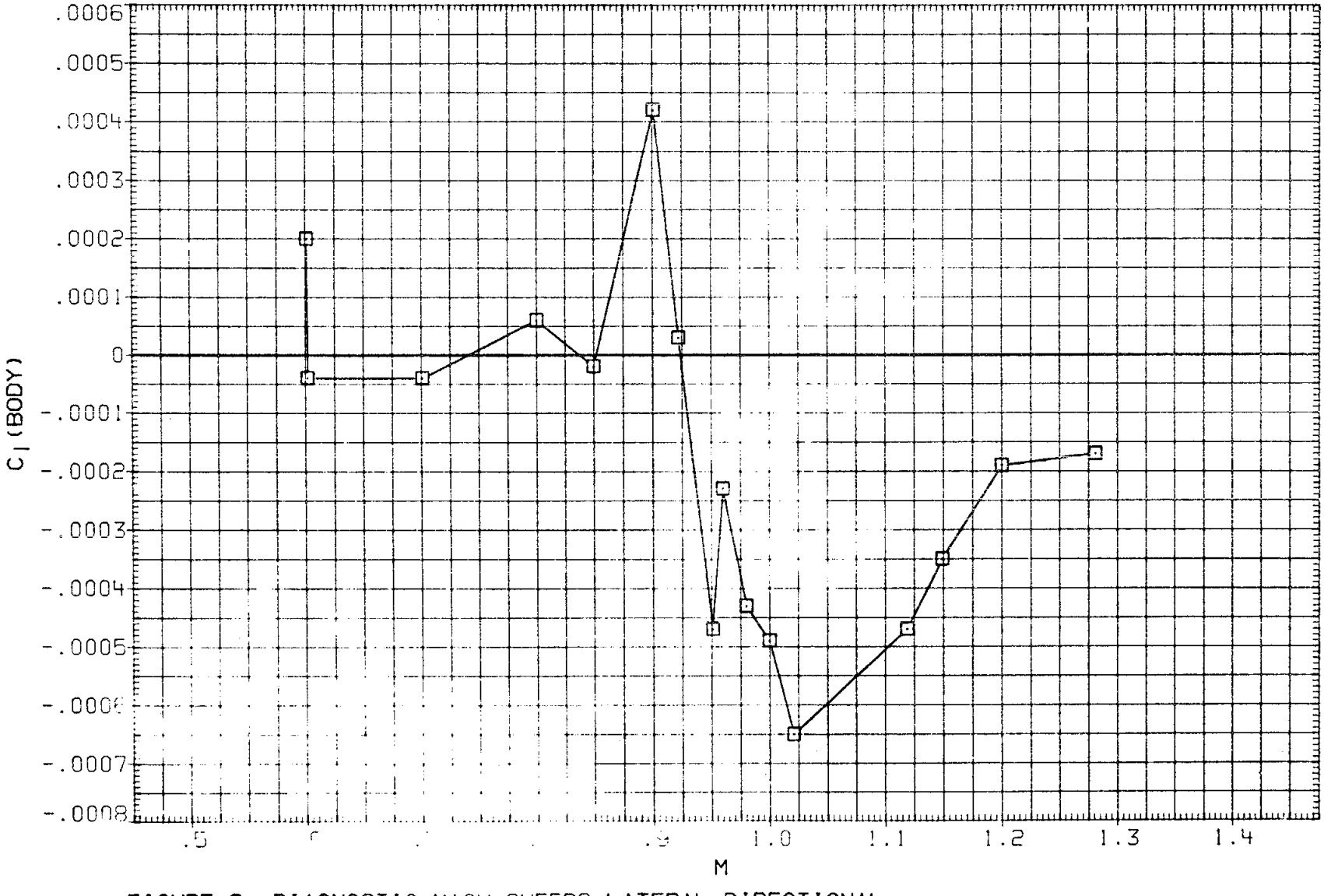

FIGURE 6. DIAGNOSTIC MACH SWEEPS,LATERAL-DIRECTIONAL

(A)ALPHA = .16

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0034	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
RK0035	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	2.000	.000	.000	.000	25.500	-.030	.000
RKN044	△	LARC 16FT TWT 326(OA270A) 39-0 ORB.	2.000	.000	.000	.000	25.000	.000	.000

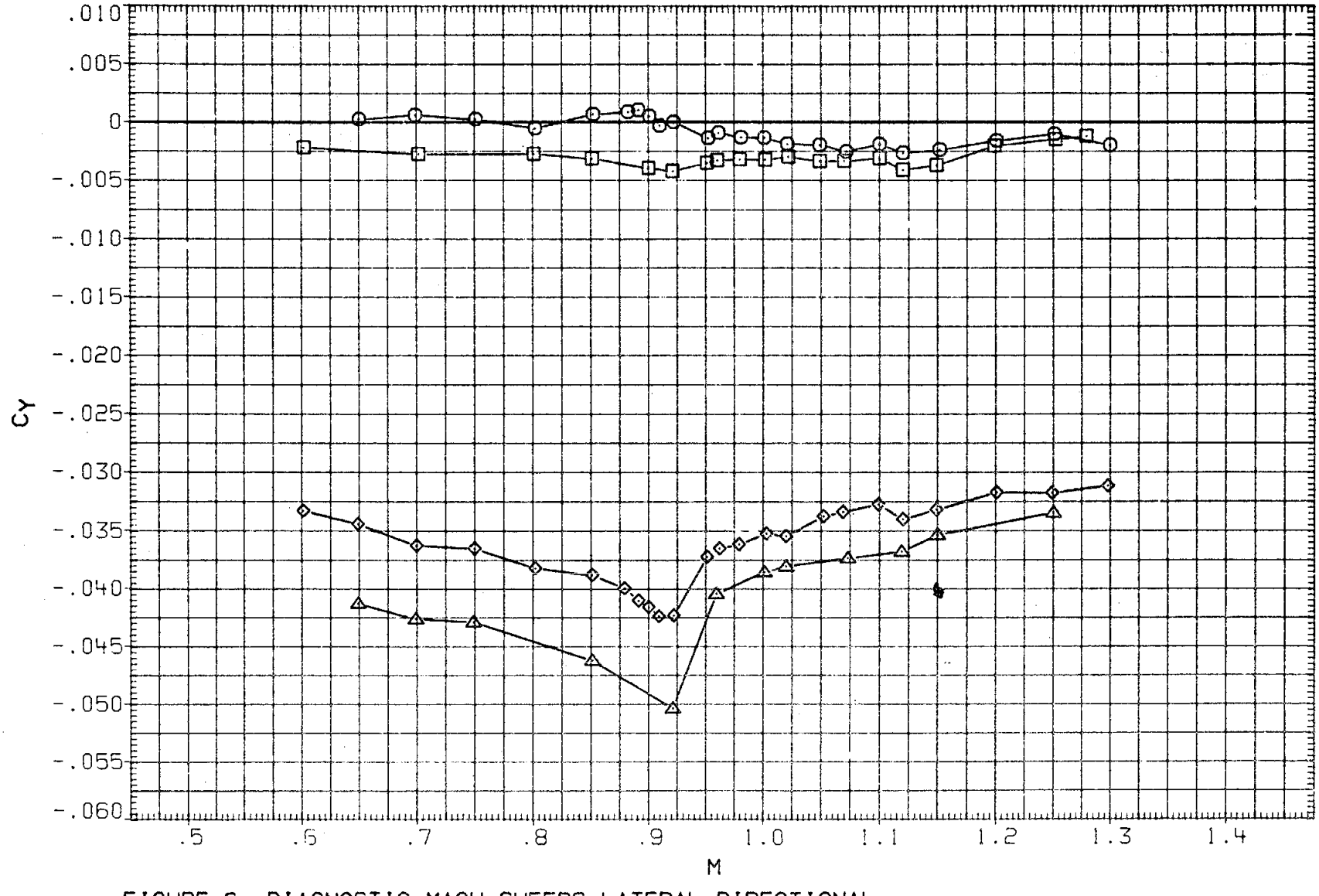

FIGURE 6. DIAGNOSTIC MACH SWEEPS,LATERAL-DIRECTIONAL

(B)ALPHA = 5.24

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0034	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
RK0035	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	2.000	.000	.000	.000	25.500	-.030	.000
RKN044	△	LARC 16FT TWT 326(OA270A) 39-0 ORB.	2.000	.000	.000	.000	25.000	.000	.000

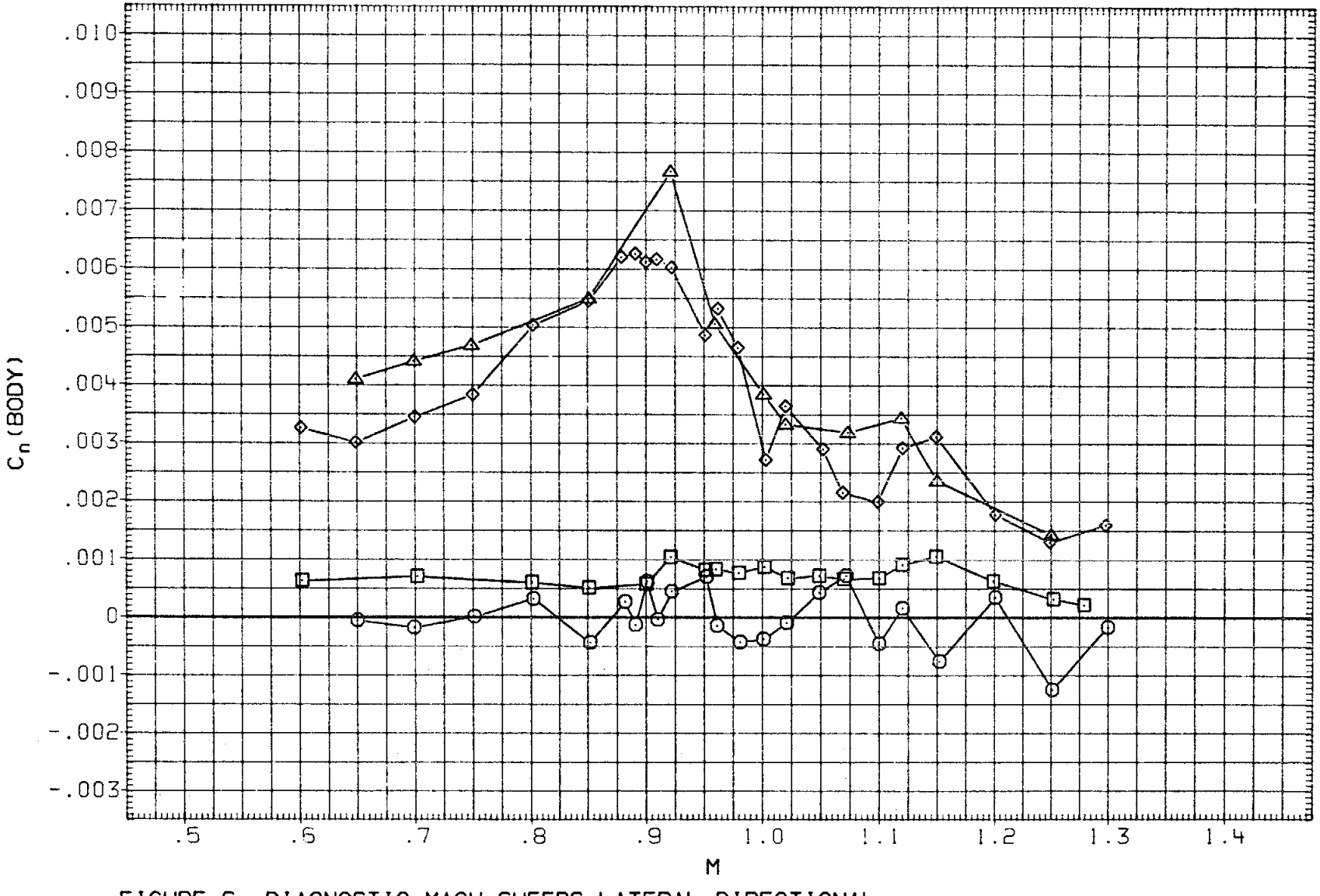

FIGURE 6. DIAGNOSTIC MACH SWEEPS,LATERAL-DIRECTIONAL

(B)ALPHA = 5.24

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0034	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
RK0035	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	2.000	.000	.000	.000	25.500	-.030	.000
RKN044	△	LARC 16FT TWT 326(OA270A) 39-0 ORB.	2.000	.000	.000	.000	25.000	.000	.000

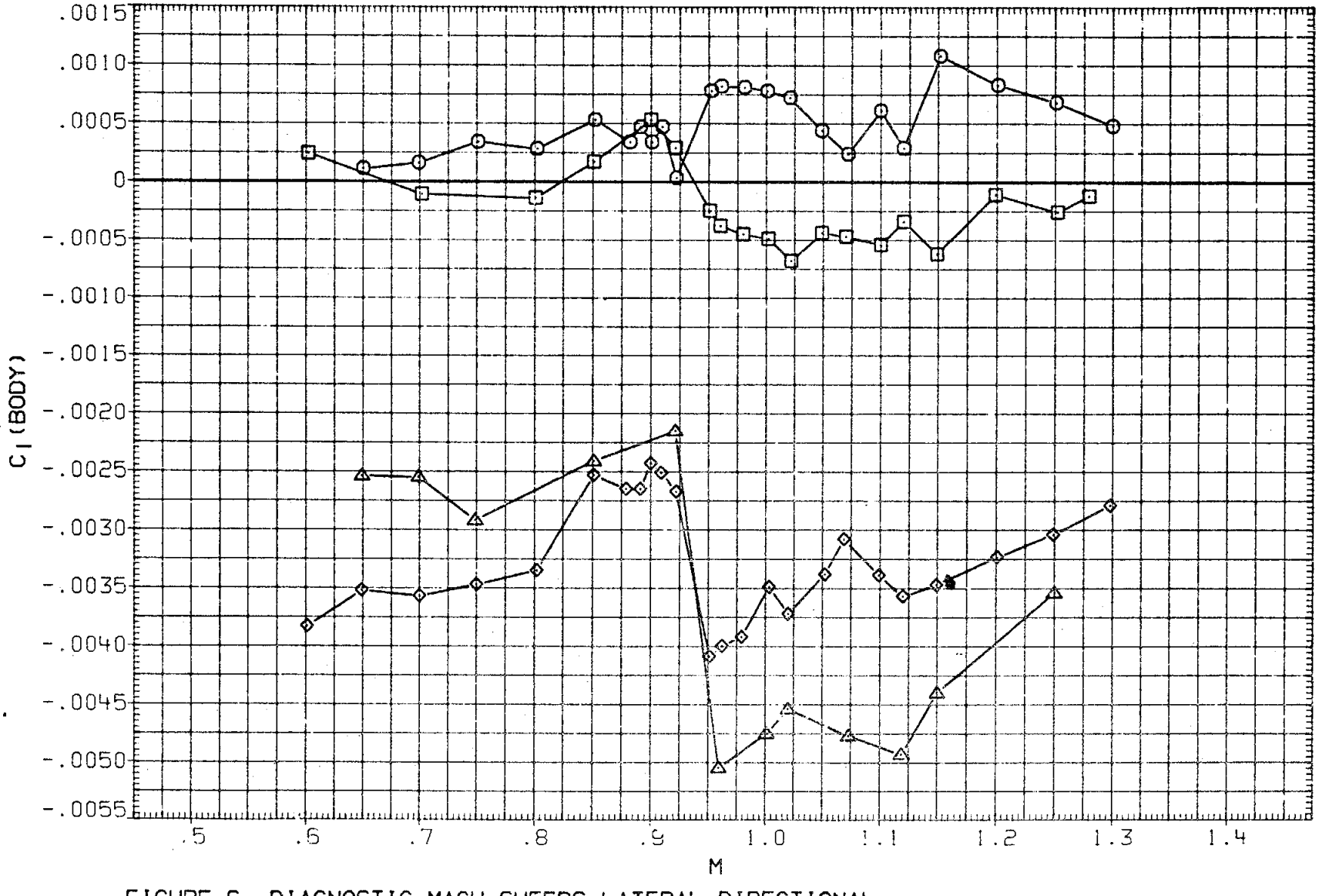

FIGURE 6. DIAGNOSTIC MACH SWEEPS,LATERAL-DIRECTIONAL

(B)ALPHA = 5.24

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0034	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(0A270A) 39-0 ORB	.000	.000	.000	.000	25.000	.000	.000
RK0035	◇	DATA NOT AVAILABLE	2.000	.000	.000	.000	25.500	-.030	.000
RKN044	△	DATA NOT AVAILABLE	2.000	.000	.000	.000	25.000	.000	.000

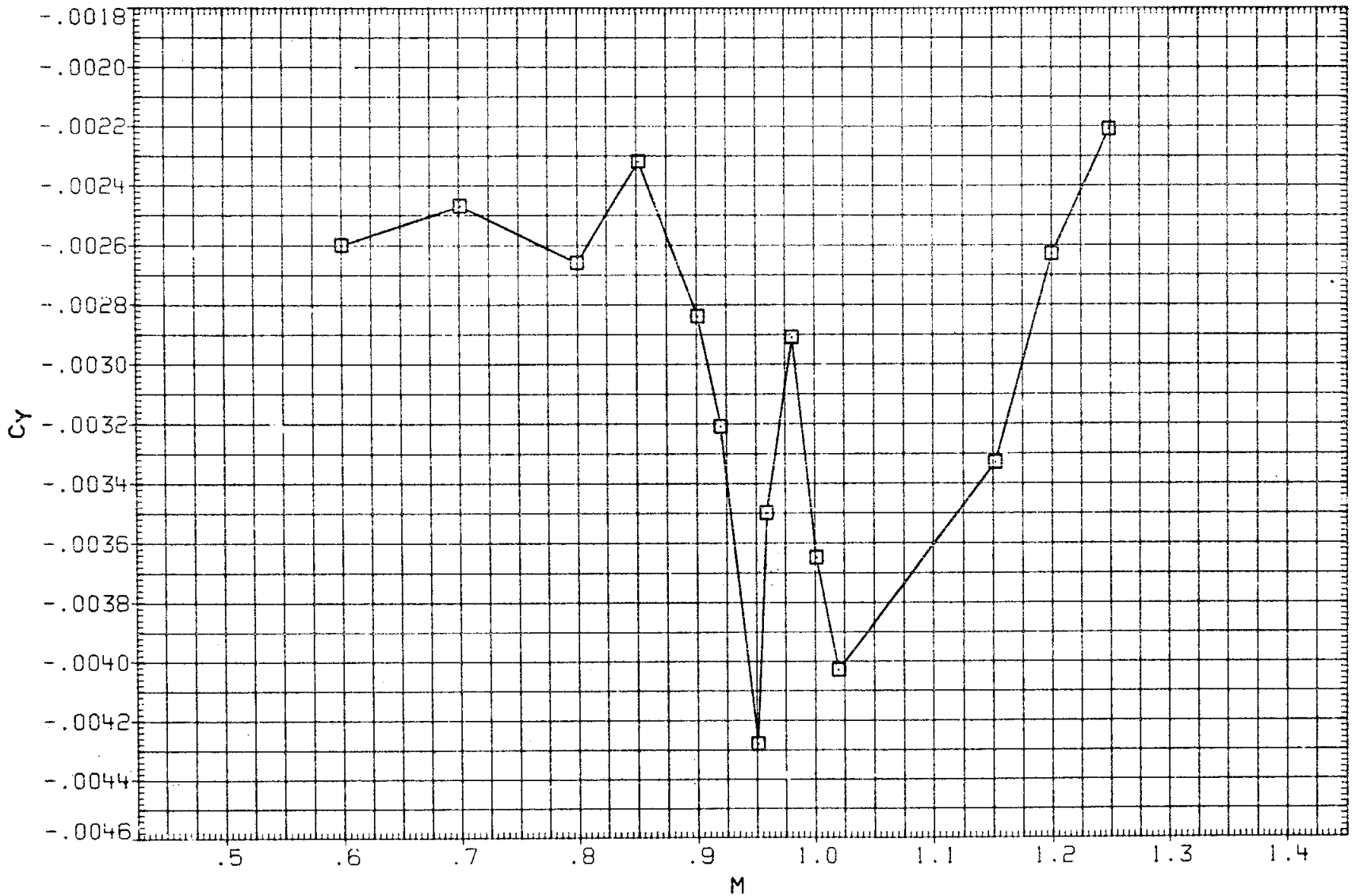

FIGURE 6. DIAGNOSTIC MACH SWEEPS,LATERAL-DIRECTIONAL

(C)ALPHA = 10.18

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0034	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
RK0035	◇	DATA NOT AVAILABLE	2.000	.000	.000	.000	25.500	-.030	.000
RKN044	△	DATA NOT AVAILABLE	2.000	.000	.000	.000	25.000	.000	.000

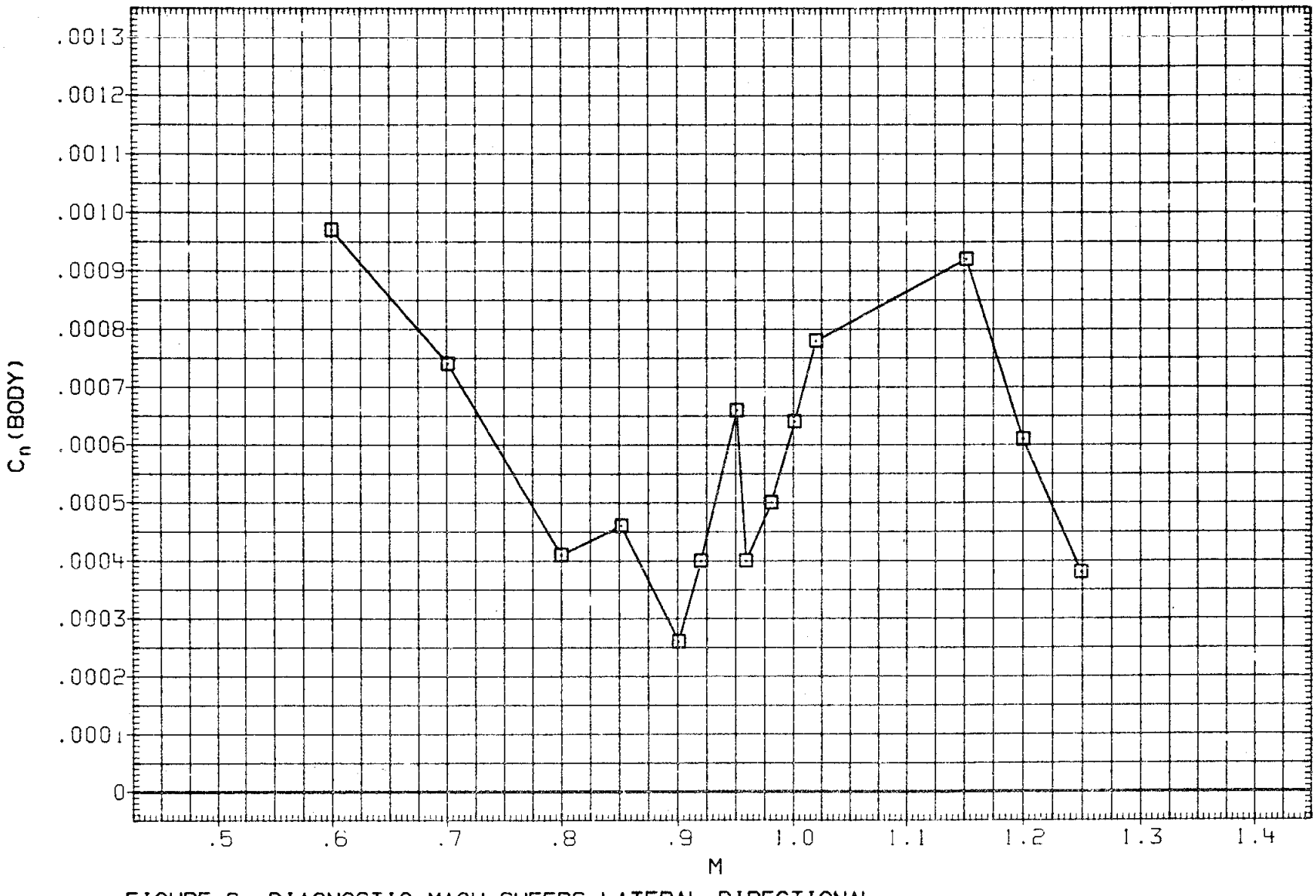

FIGURE 6. DIAGNOSTIC MACH SWEEPS,LATERAL-DIRECTIONAL

(C)ALPHA = 10.18

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0034	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
RK0035	◇	DATA NOT AVAILABLE	2.000	.000	.000	.000	25.500	-.030	.000
RKN044	△	DATA NOT AVAILABLE	2.000	.000	.000	.000	25.000	.000	.000

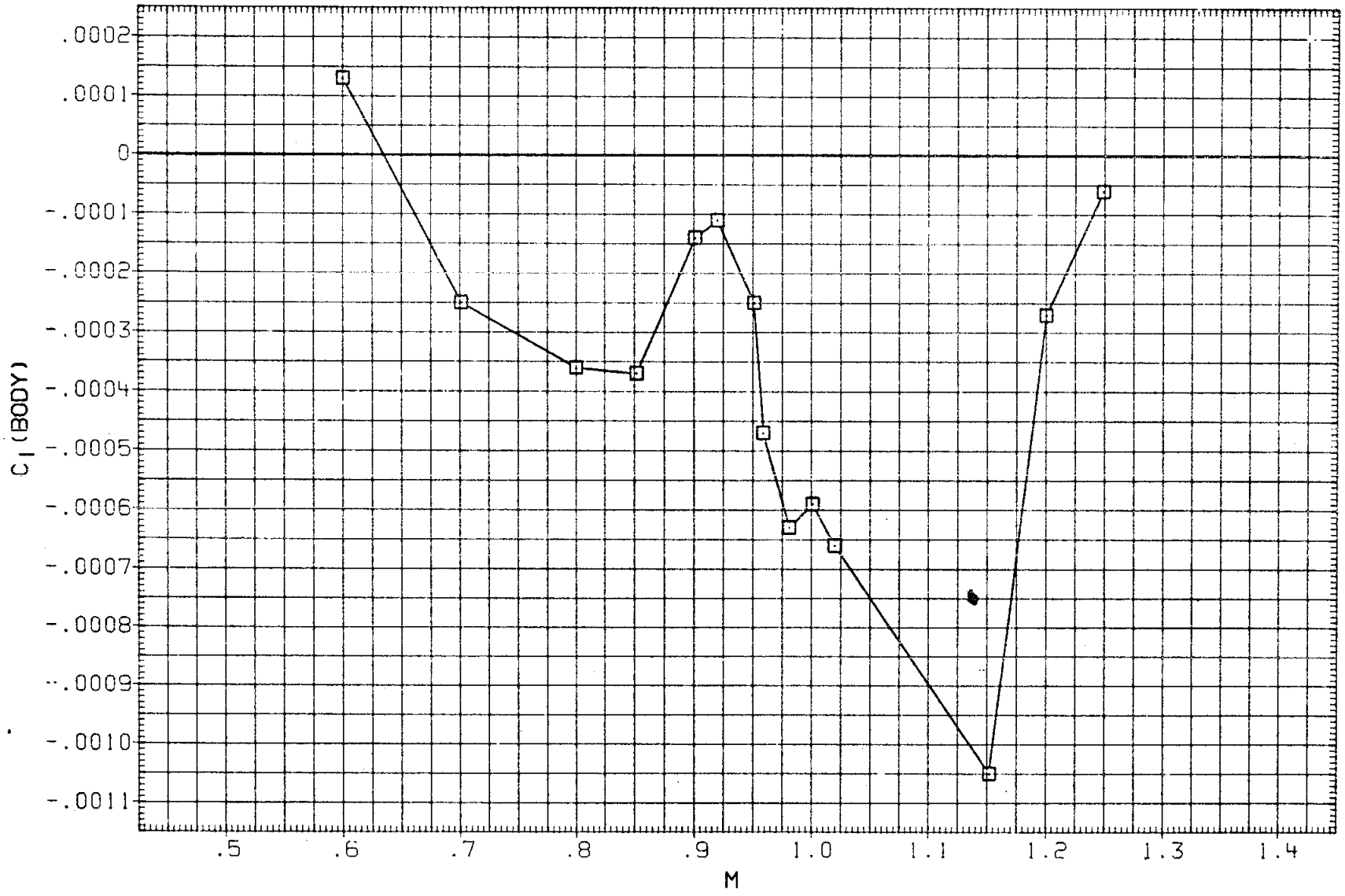

FIGURE 6. DIAGNOSTIC MACH SWEEPS,LATERAL-DIRECTIONAL

(C)ALPHA = 10.18

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0034	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
RK0036	◇	DATA NOT AVAILABLE	.000	.070	-4.860	.000	25.500	-.030	.000
RKN042	△	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	.000

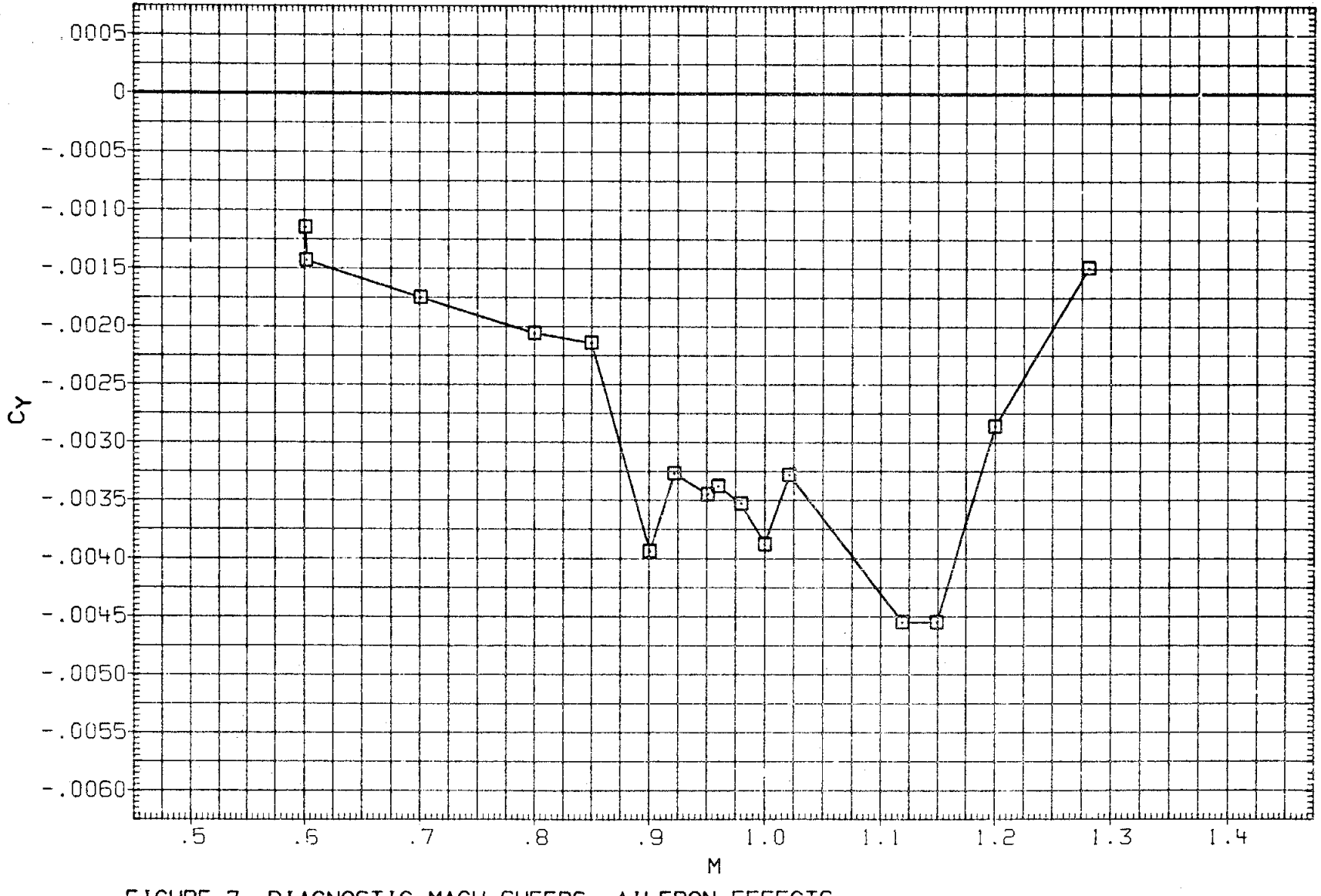

FIGURE 7. DIAGNOSTIC MACH SWEEPS, AILERON EFFECTS

(A)ALPHA = .16

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0034	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
RK0036	◇	DATA NOT AVAILABLE	.000	.070	-4.860	.000	25.500	-.030	.000
RKN042	△	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	.000

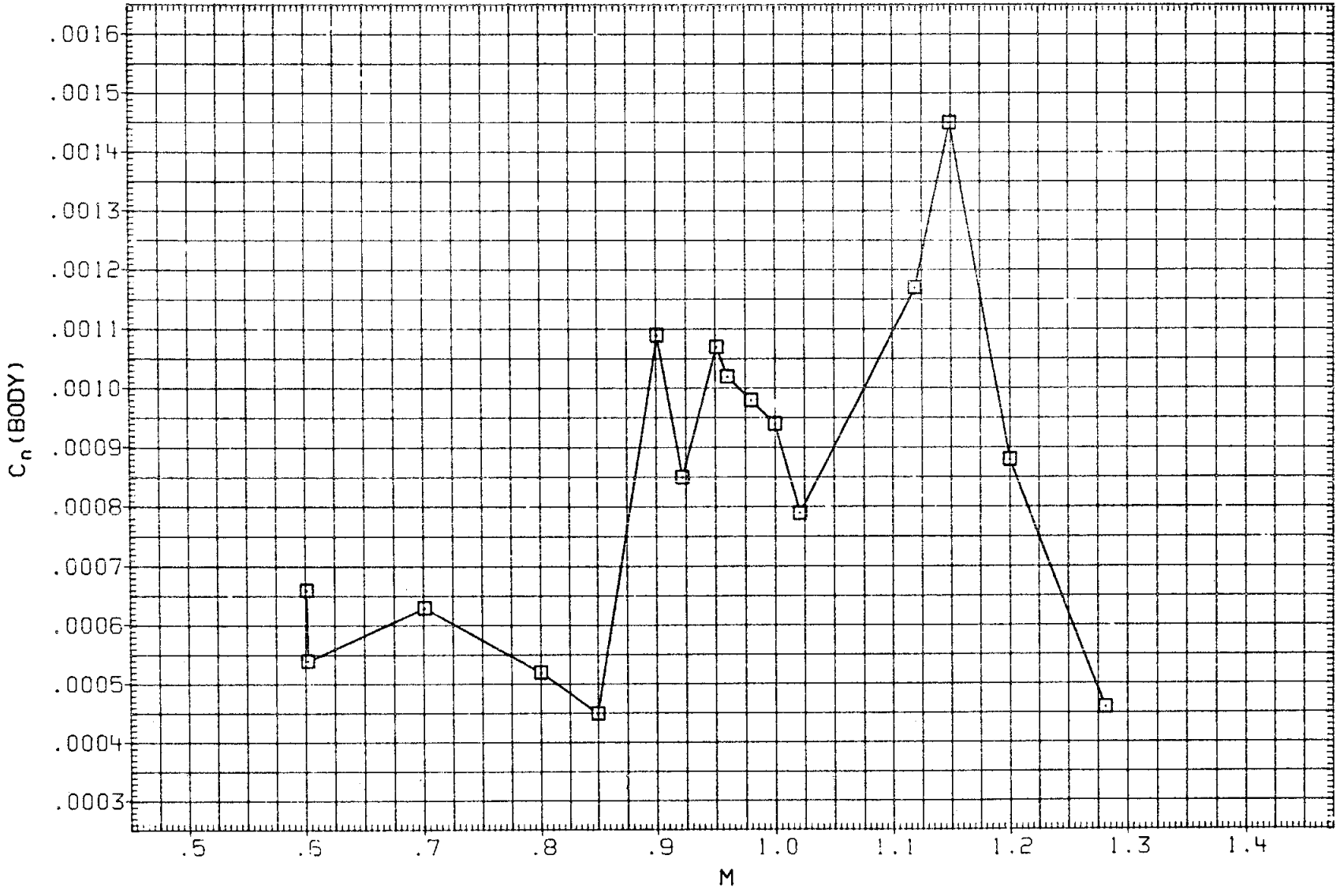

FIGURE 7. DIAGNOSTIC MACH SWEEPS, AILERON EFFECTS

(A) ALPHA = .16

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0034	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
RK0036	◇	DATA NOT AVAILABLE	.000	.070	-4.860	.000	25.500	-.030	.000
RKN042	△	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	.000

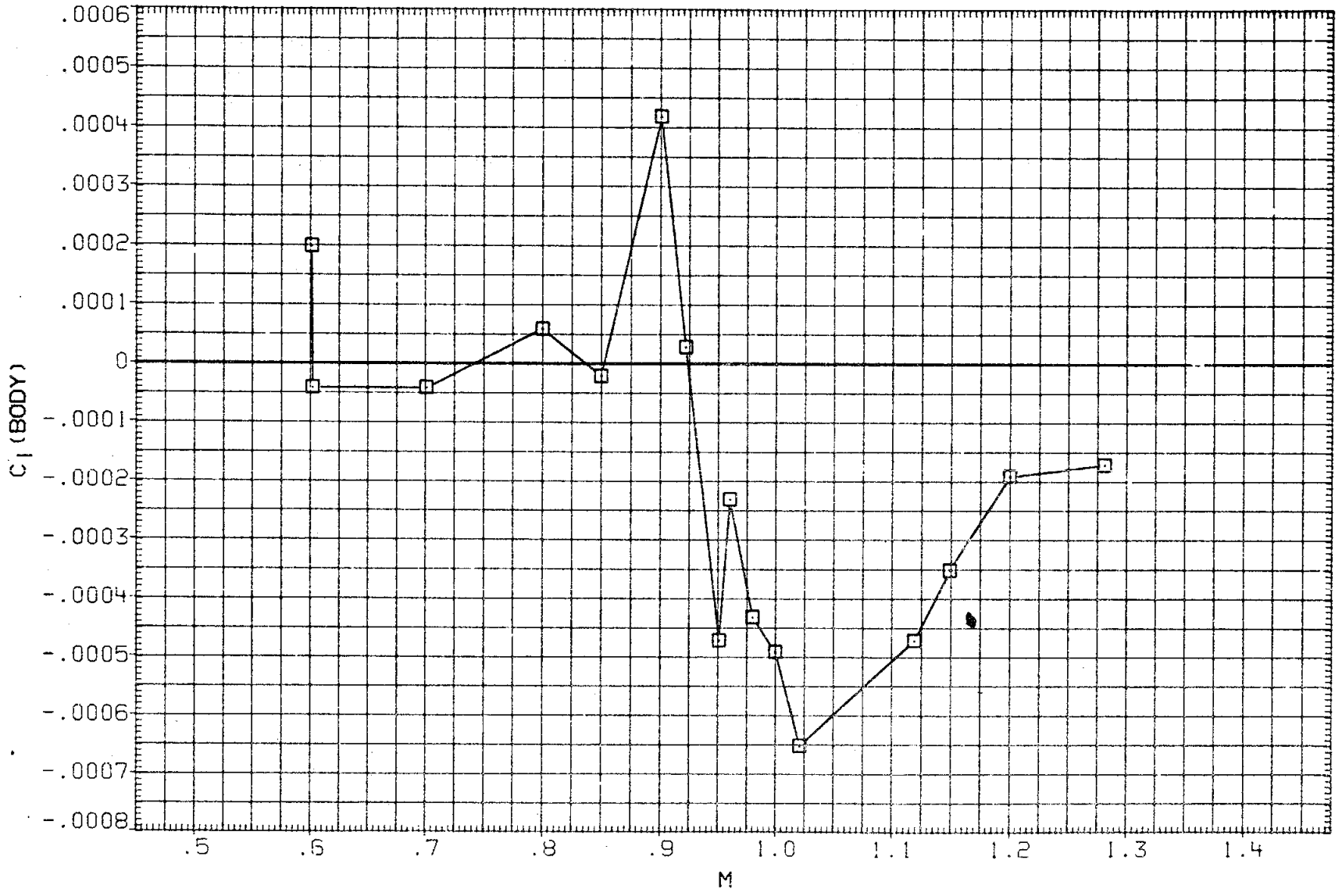

FIGURE 7. DIAGNOSTIC MACH SWEEPS, AILERON EFFECTS

(A)ALPHA = .16

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0034	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
RK0036	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RKN042	△	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	3.000	.000	25.000	.000	.000

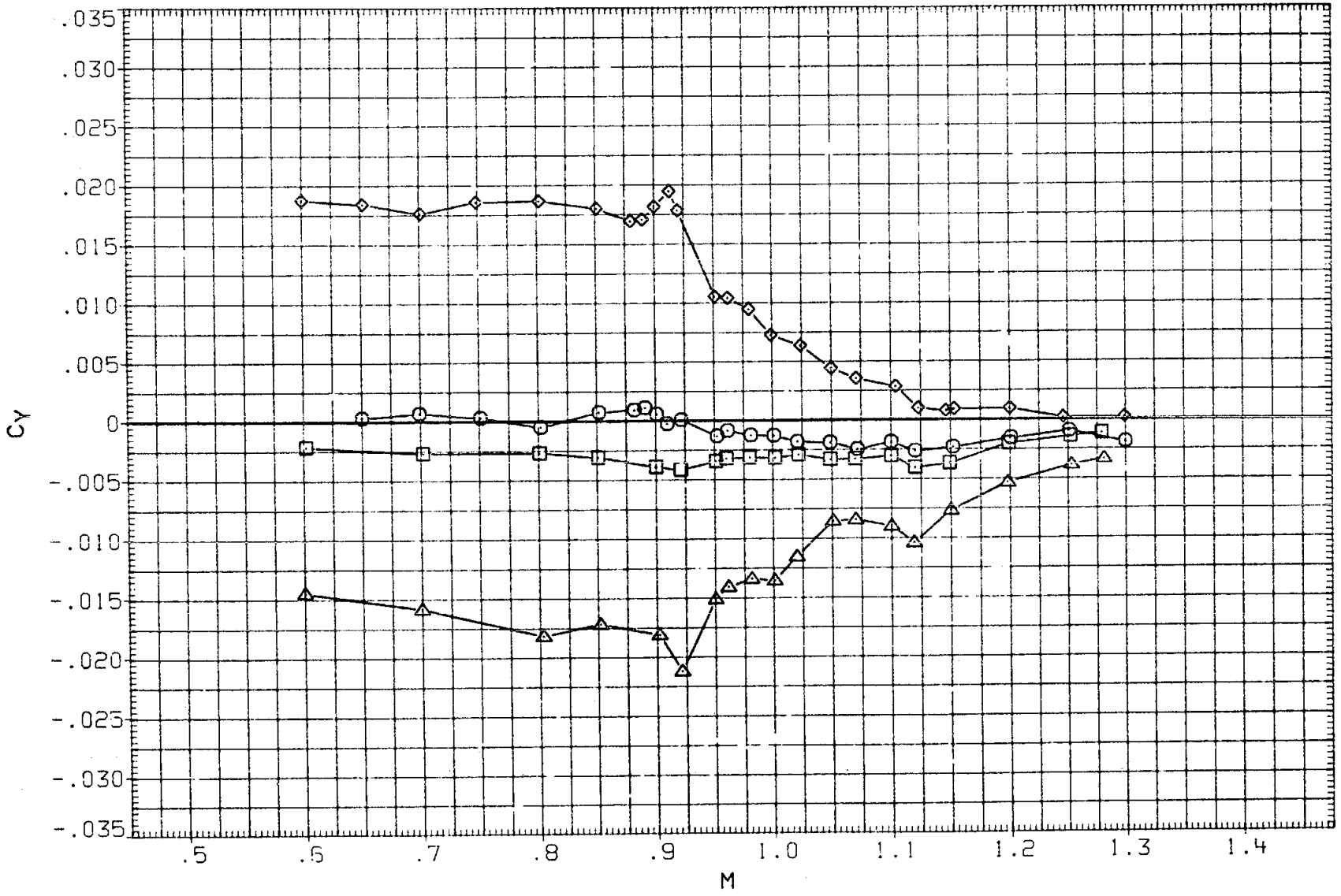

FIGURE 7. DIAGNOSTIC MACH SWEEPS, AILERON EFFECTS

(B)ALPHA = 5.24

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0034	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
RK0036	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RKN042	△	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	3.000	.000	25.000	.000	.000

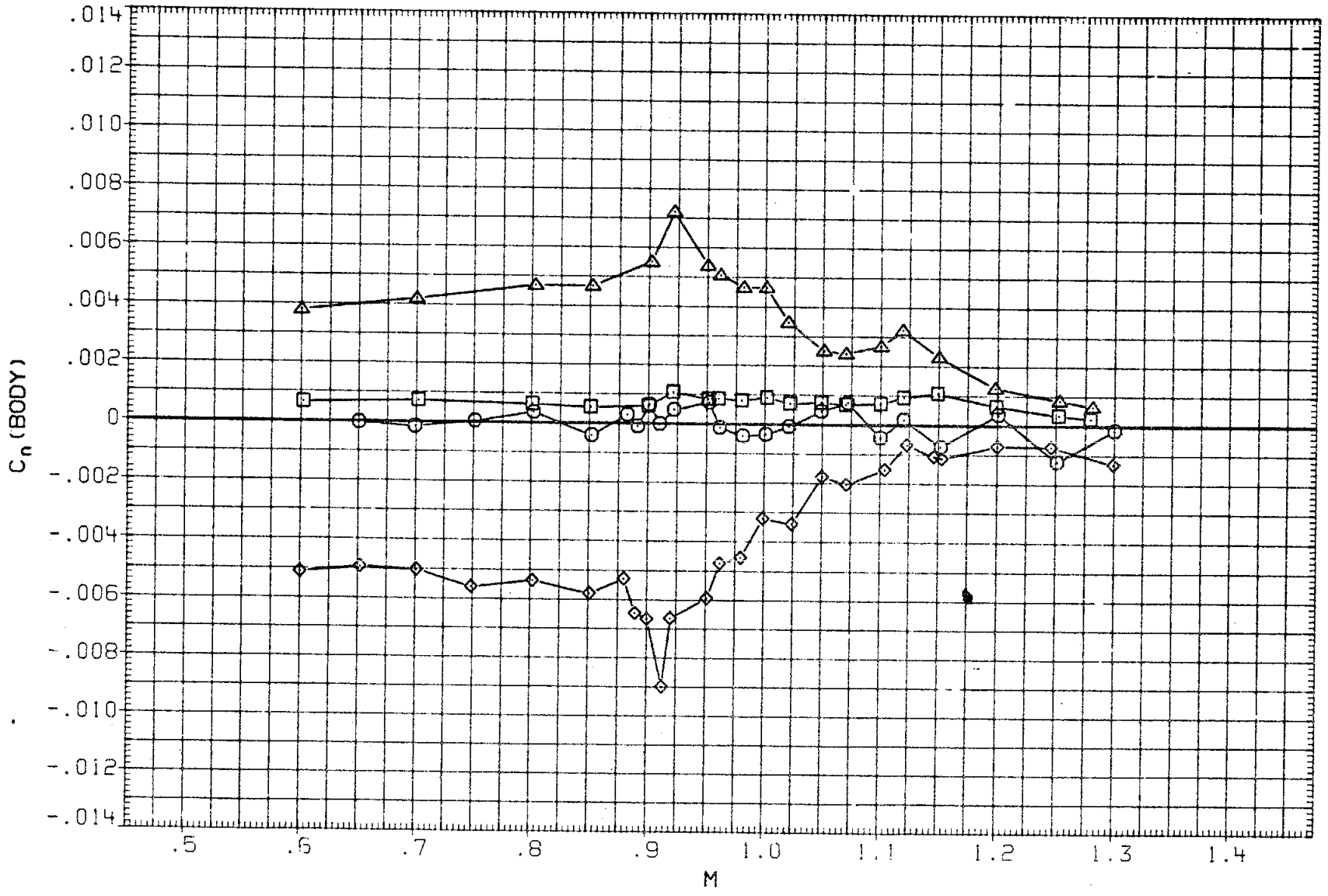

FIGURE 7. DIAGNOSTIC MACH SWEEPS, AILERON EFFECTS

(B) ALPHA = 5.24

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDLR	PHI
RK0034	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
RK0036	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RKN042	△	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	3.000	.000	25.000	.000	.000

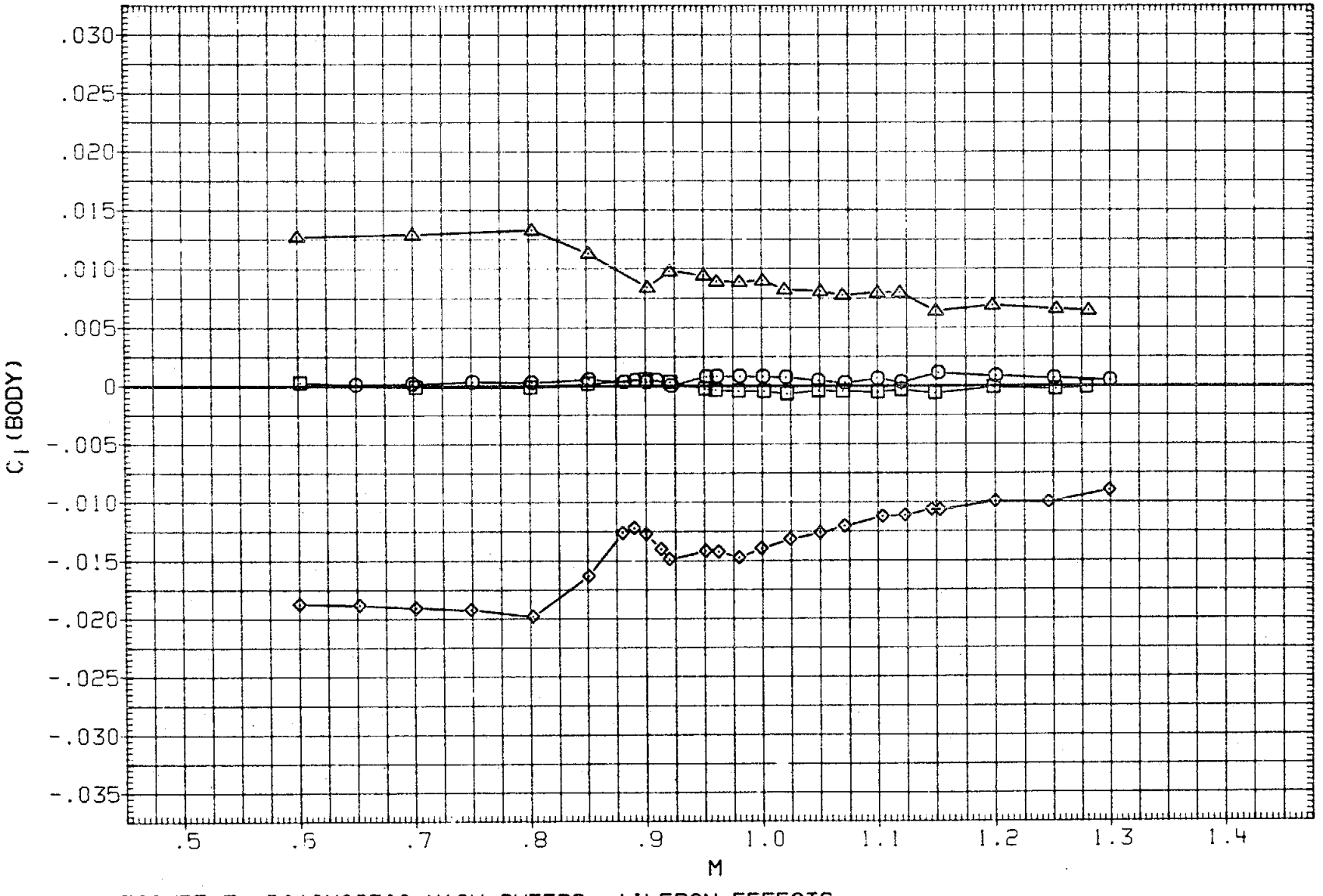

FIGURE 7. DIAGNOSTIC MACH SWEEPS, AILERON EFFECTS

(B) ALPHA = 5.24

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0034	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
RK0036	◇	DATA NOT AVAILABLE	.000	.070	-4.860	.000	25.500	-.030	.000
RKN042	△	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	.000

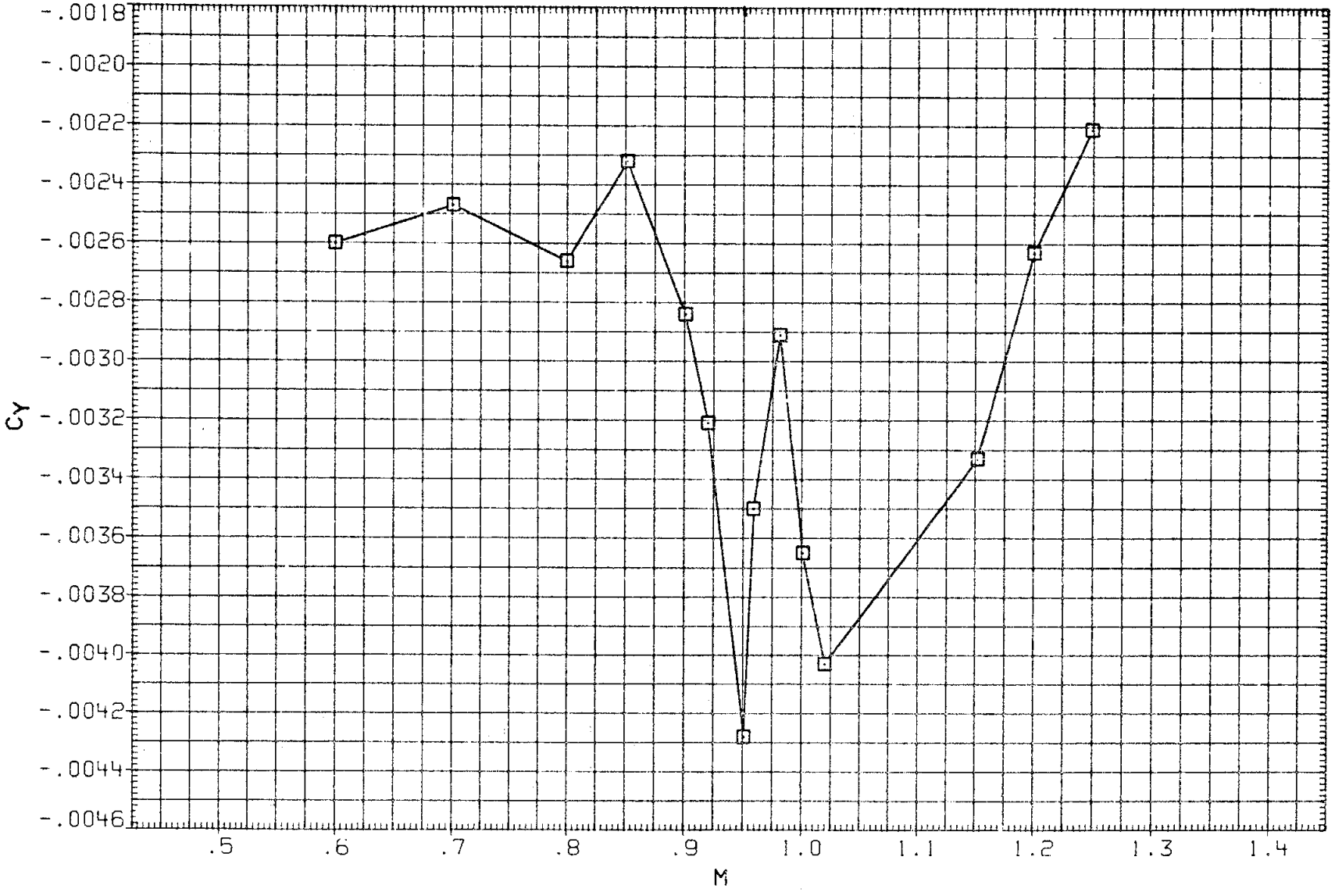

FIGURE 7. DIAGNOSTIC MACH SWEEPS, AILERON EFFECTS

(C)ALPHA = 10.18

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0034	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
RK0036	◇	DATA NOT AVAILABLE	.000	.070	-4.860	.000	25.500	-.030	.000
RKN042	△	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	.000

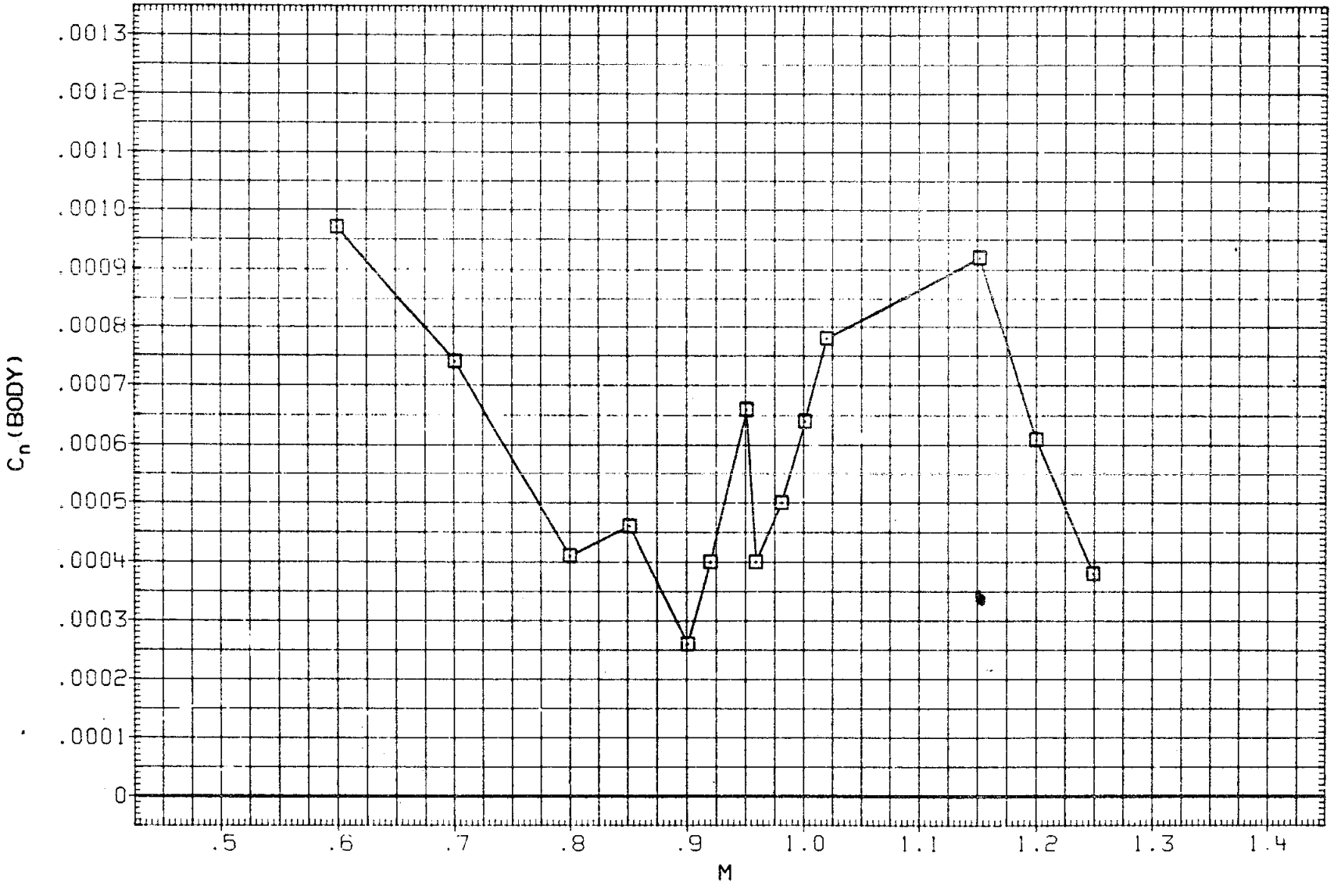

FIGURE 7. DIAGNOSTIC MACH SWEEPS, AILERON EFFECTS

(C)ALPHA = 10.18

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0034	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
RK0036	◇	DATA NOT AVAILABLE	.000	.070	-4.860	.000	25.500	-.030	.000
RKN042	△	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	.000

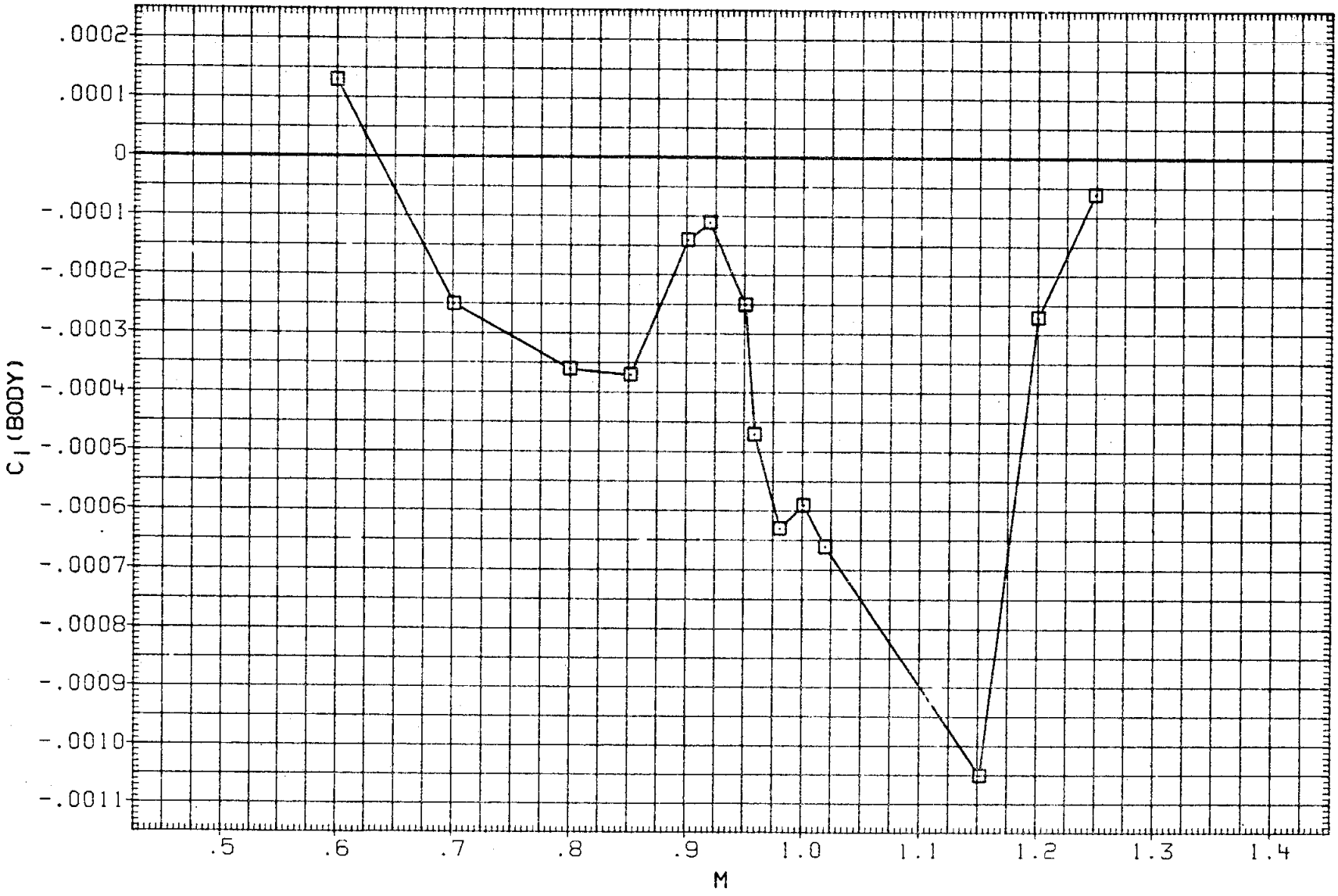

FIGURE 7. DIAGNOSTIC MACH SWEEPS, AILERON EFFECTS

(C)ALPHA = 10.18

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0034	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
RK0037	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	5.240	.000
RKN043	△	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	5.000	.000

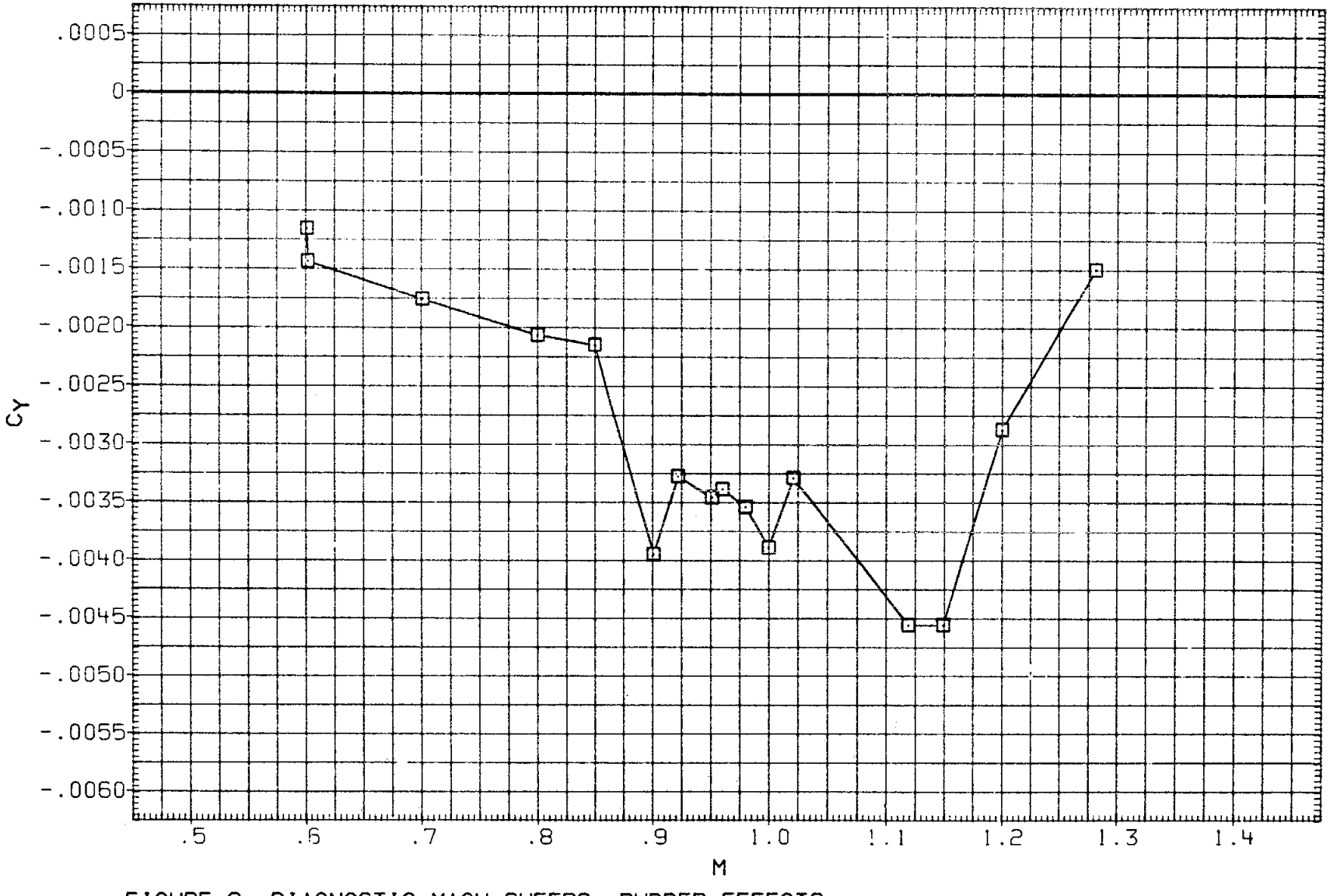

FIGURE 8. DIAGNOSTIC MACH SWEEPS, RUDDER EFFECTS

(A)ALPHA = .16

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0034	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
RK0037	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	5.240	.000
RKN043	△	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	5.000	.000

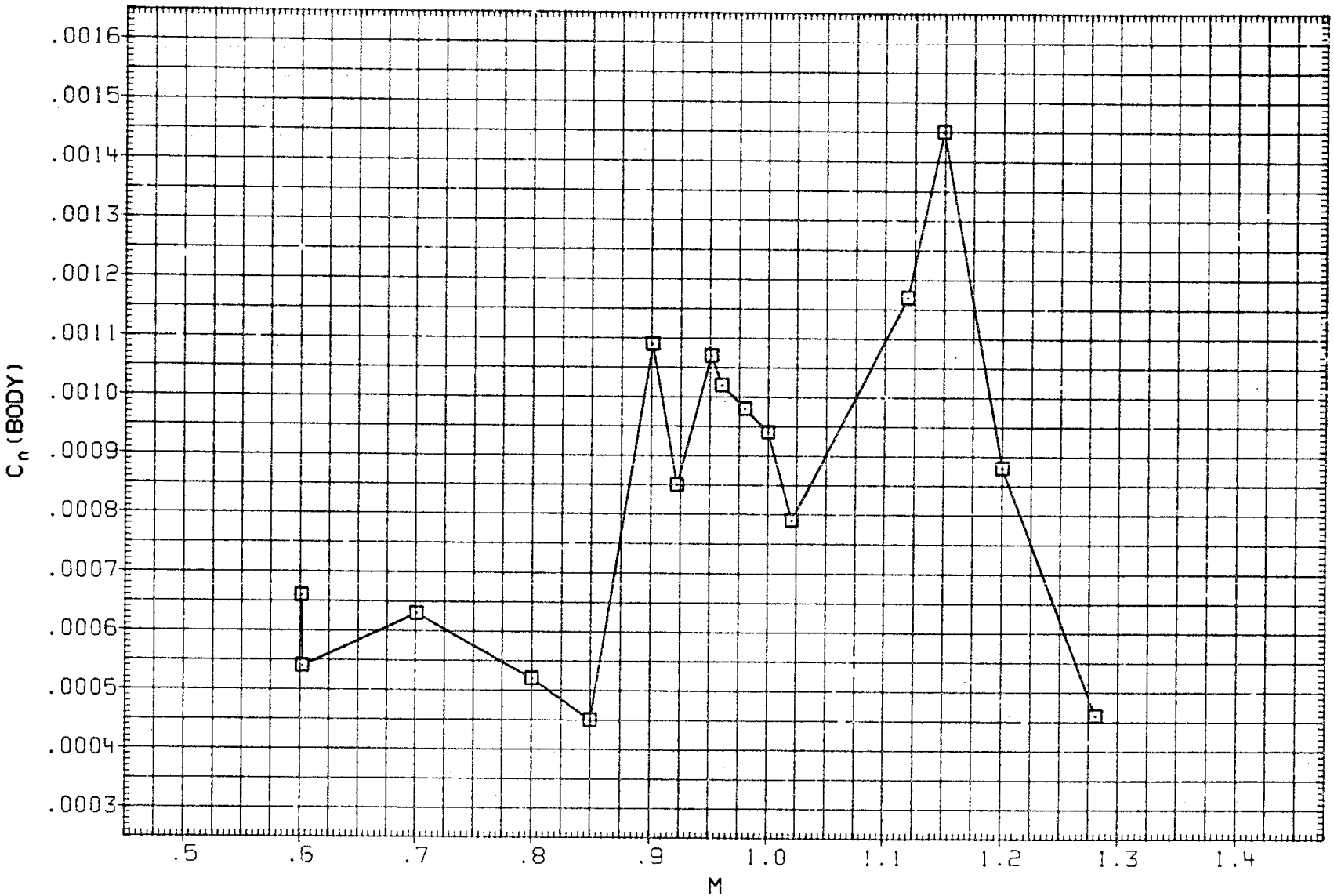

FIGURE 8. DIAGNOSTIC MACH SWEEPS, RUDDER EFFECTS

(A)ALPHA = .16

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0034	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
RK0037	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	5.240	.000
RKN043	△	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	5.000	.000

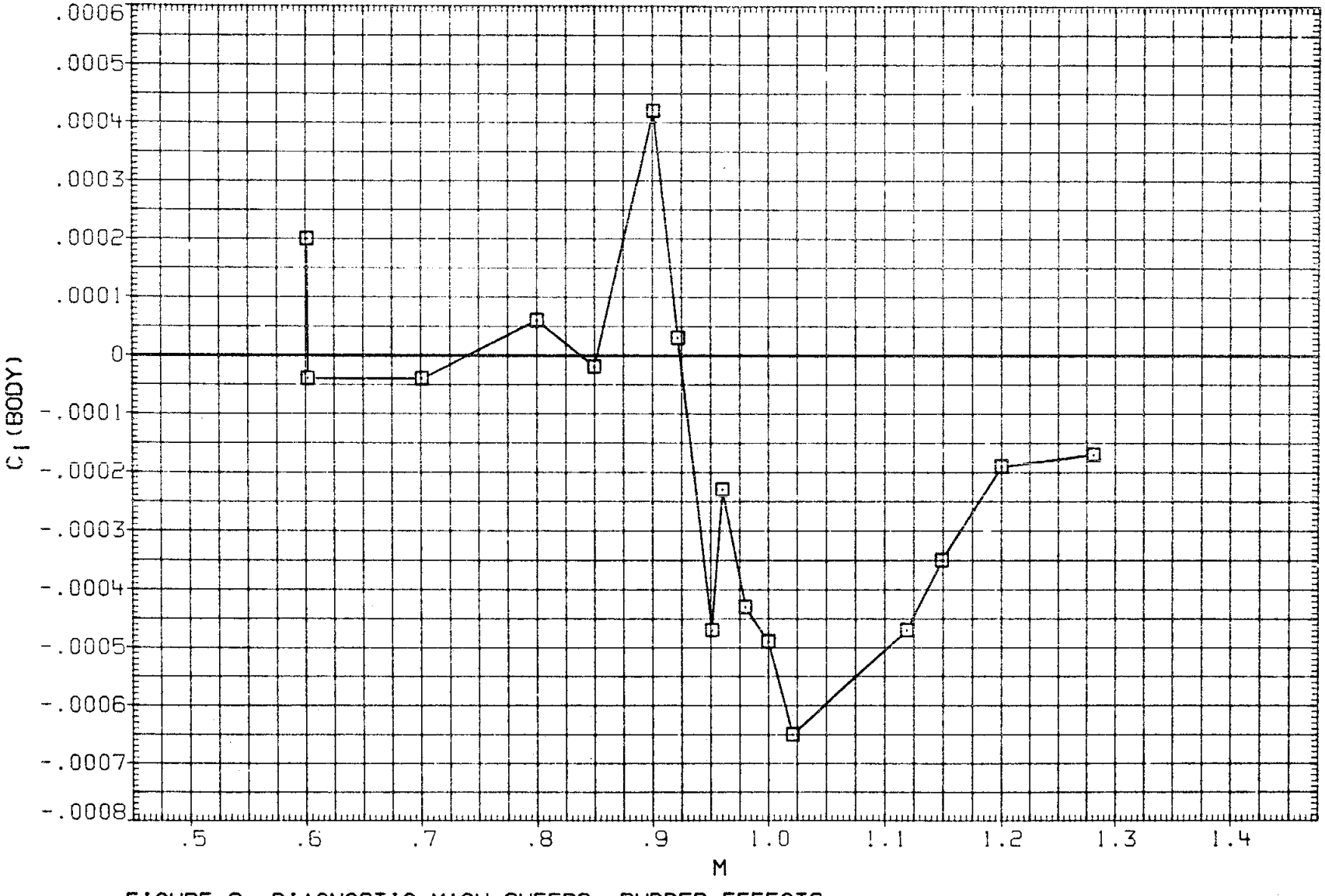

FIGURE 8. DIAGNOSTIC MACH SWEEPS, RUDDER EFFECTS

(A) ALPHA = .16

DATA SET	SYMBOL	CONFIGURATION	SETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0034	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
RK0037	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	5.240	.000
RKN043	△	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	5.000	.000

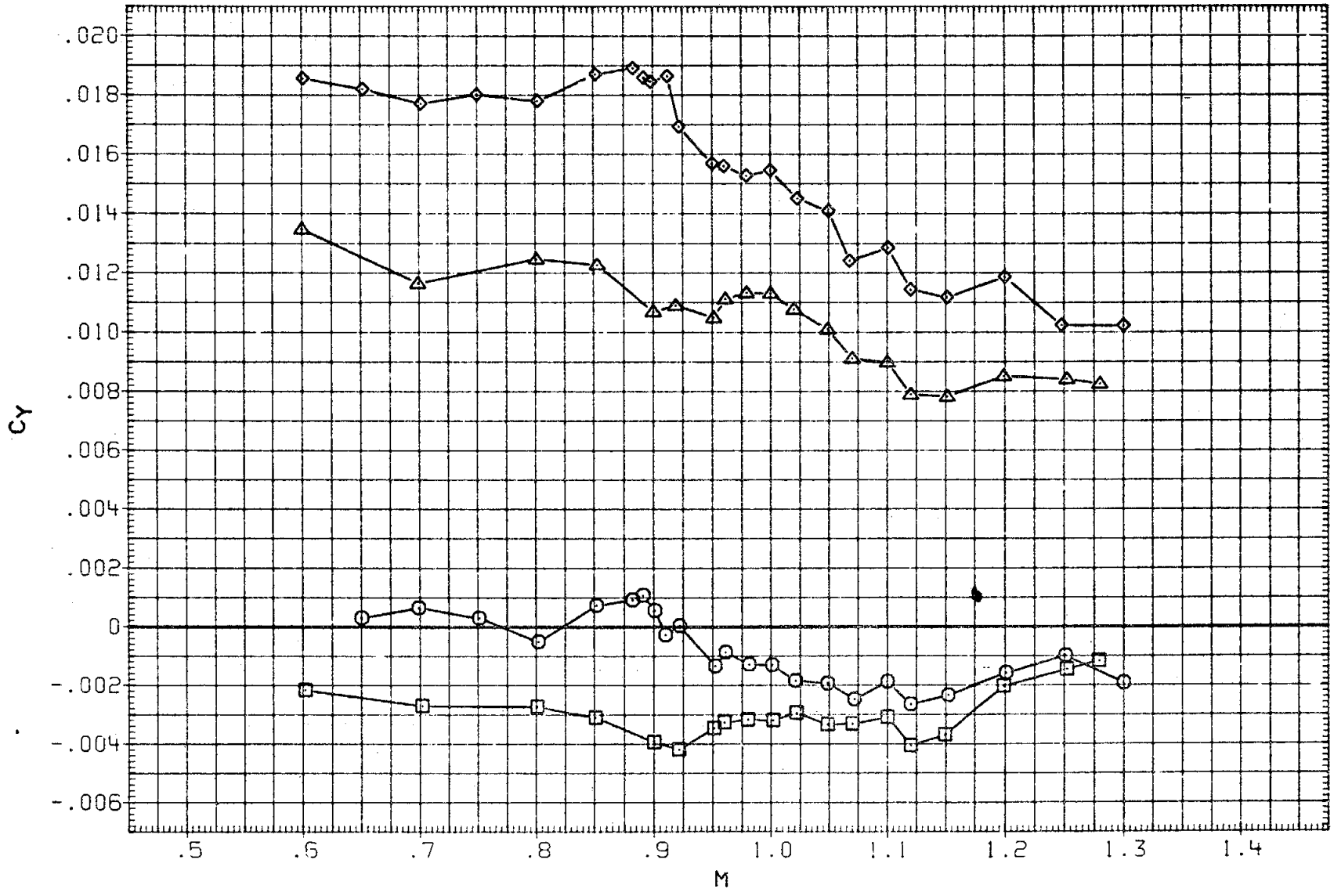

FIGURE 8. DIAGNOSTIC MACH SWEEPS, RUDDER EFFECTS

(B)ALPHA = 5.24

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0034	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
RK0037	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	5.240	.000
RKN043	△	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	5.000	.000

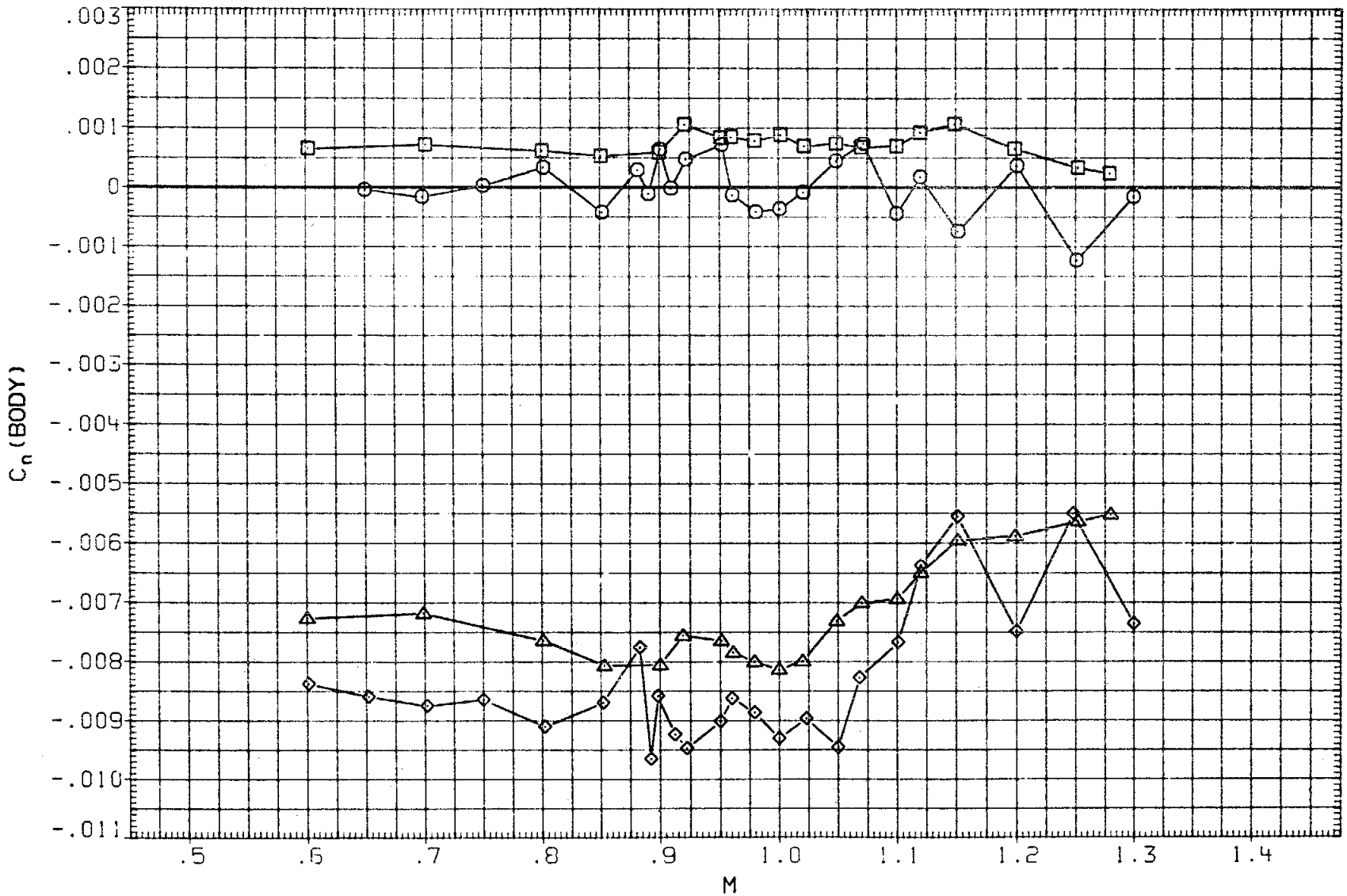

FIGURE 8. DIAGNOSTIC MACH SWEEPS, RUDDER EFFECTS

(B)ALPHA = 5.24

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0034	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
RK0037	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	5.240	.000
RKN043	△	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	5.000	.000

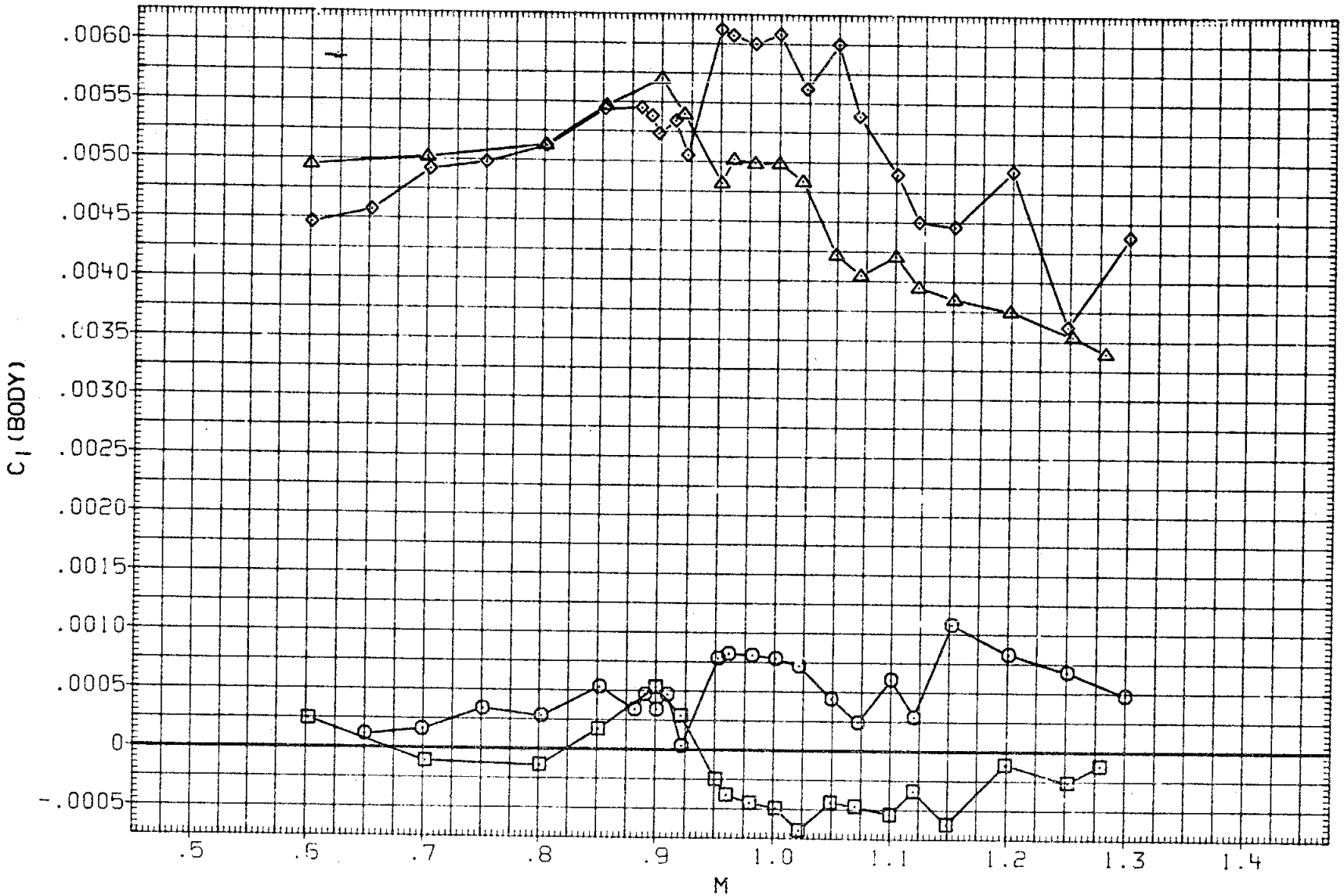

FIGURE 8. DIAGNOSTIC MACH SWEEPS, RUDDER EFFECTS

(B)ALPHA = 5.24

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0034	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(OA270A) 39 O ORB.	.000	.000	.000	.000	25.000	.000	.000
RK0037	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	5.240	.000
RKN043	△	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	5.000	.000

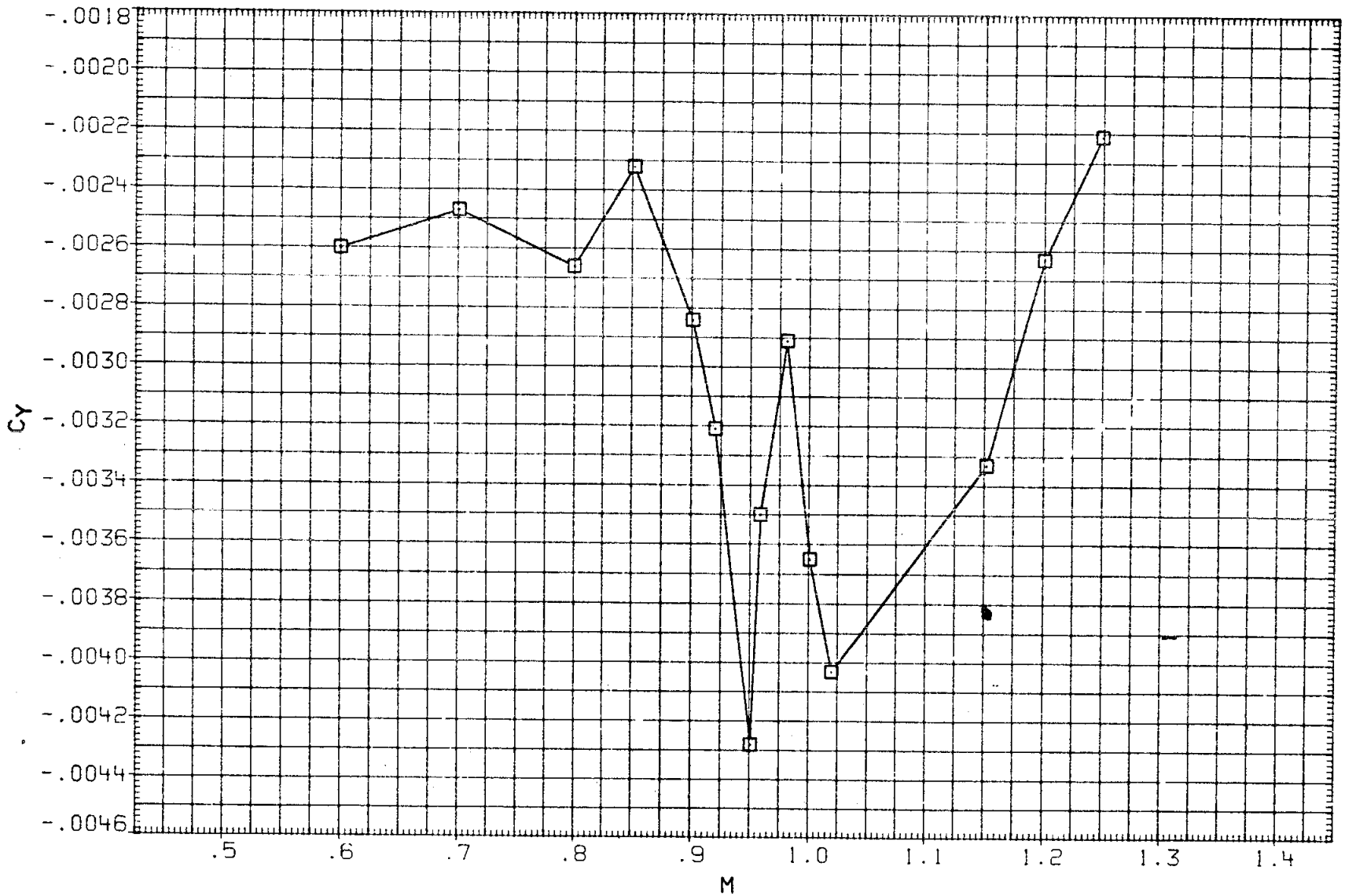

FIGURE 8. DIAGNOSTIC MACH SWEEPS, RUDDER EFFECTS

(C)ALPHA = 10.18

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0034	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
RK0037	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	5.240	.000
RKN043	△	DATA NOT AVAILAPLE	.000	.000	.000	.000	25.000	5.000	.000

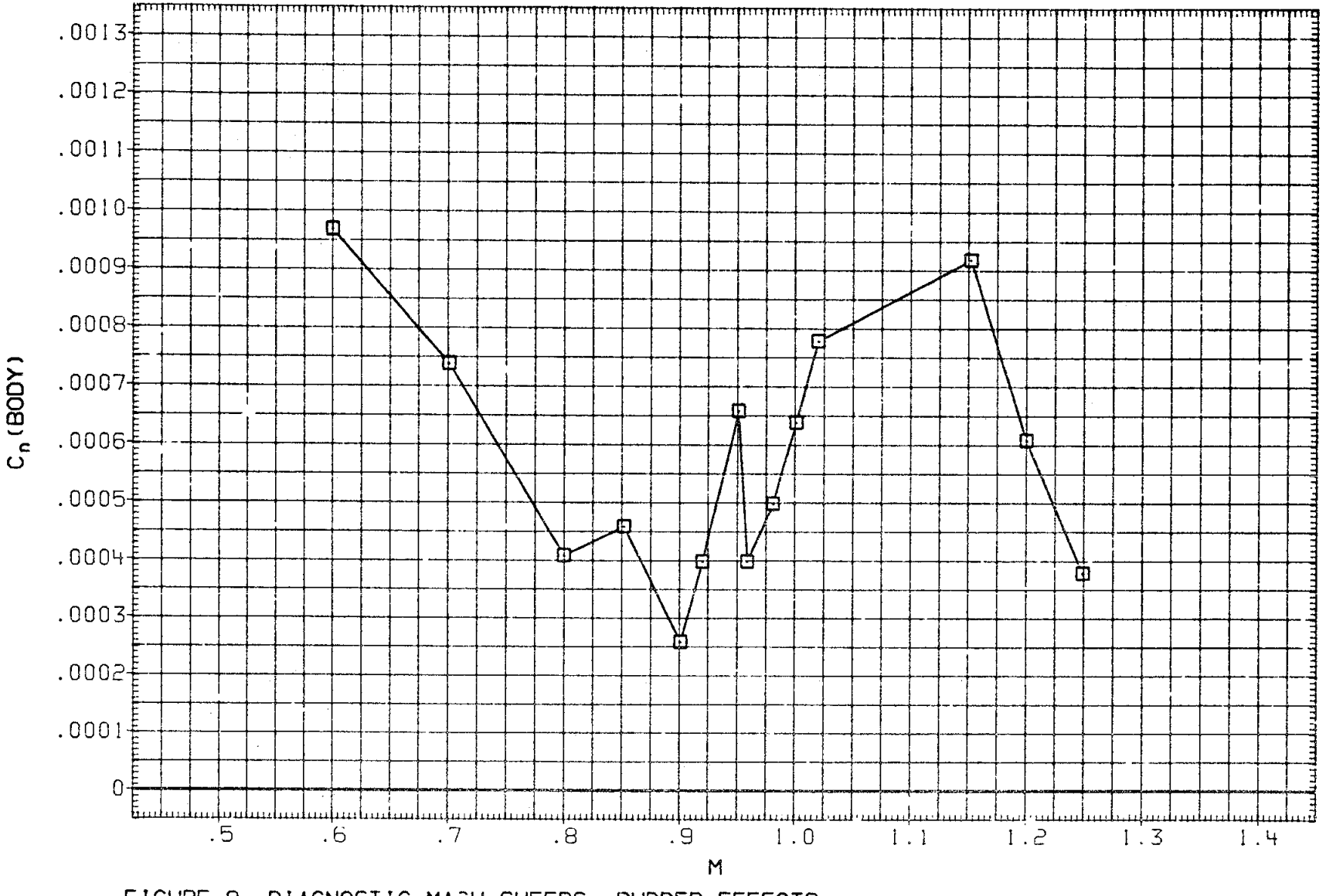

FIGURE 8. DIAGNOSTIC MACH SWEEPS, RUDDER EFFECTS

(C)ALPHA = 10.18

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0034	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN041	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
RK0037	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	5.240	.000
RKN043	△	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	5.000	.000

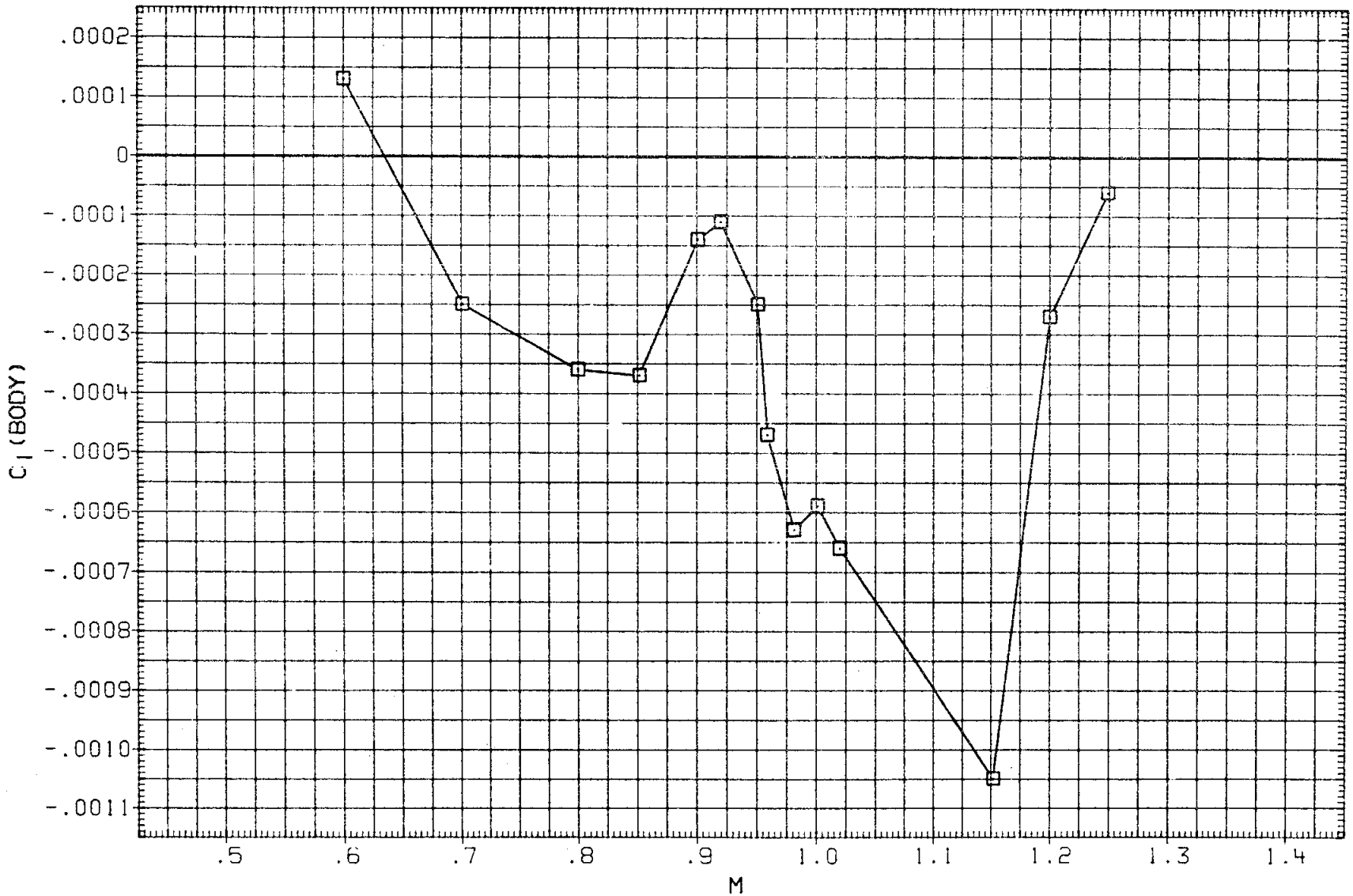

FIGURE 8. DIAGNOSTIC MACH SWEEPS, RUDDER EFFECTS

(C)ALPHA = 10.18

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 11B-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

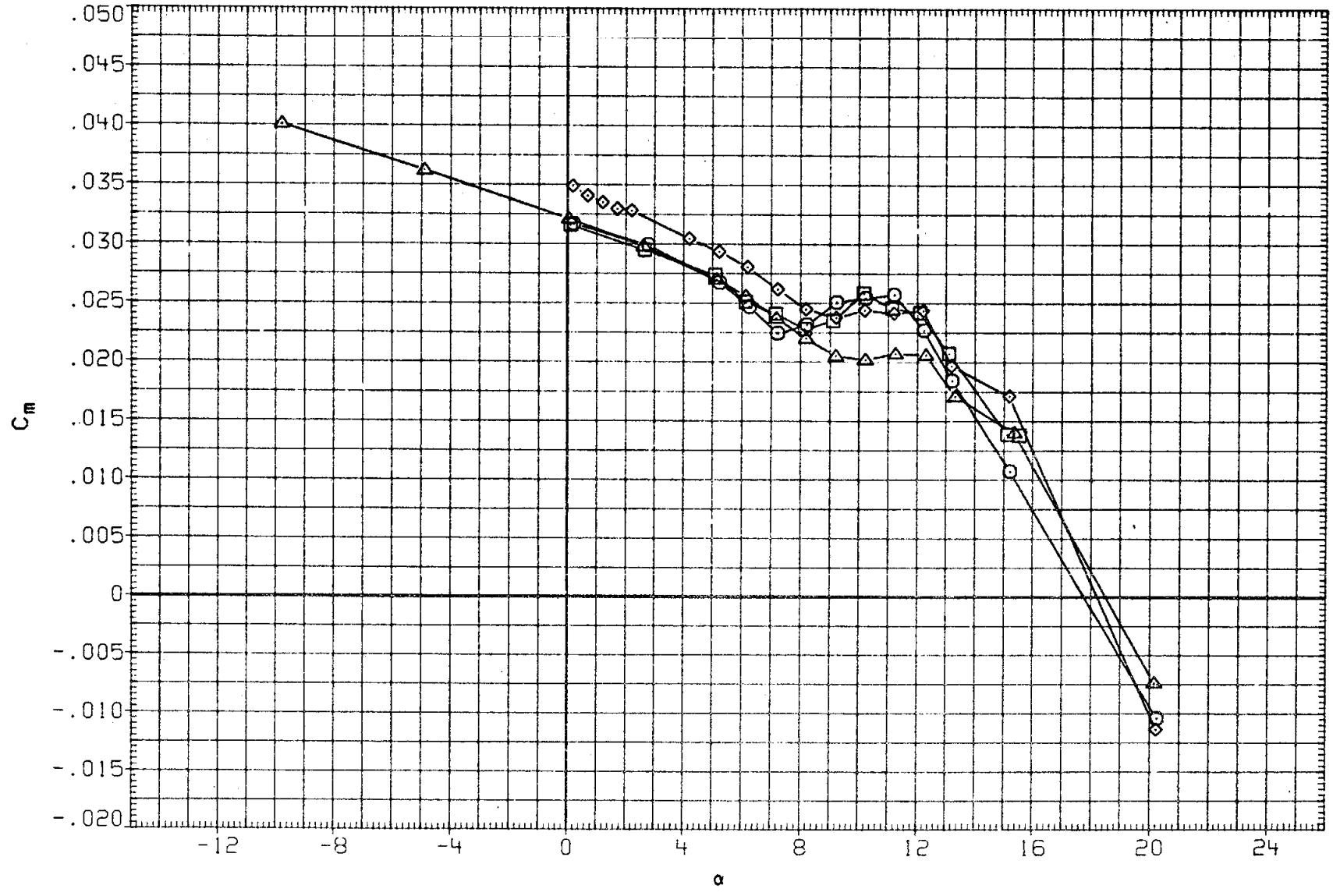

FIGURE 9. BASIC LONGITUDINAL

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

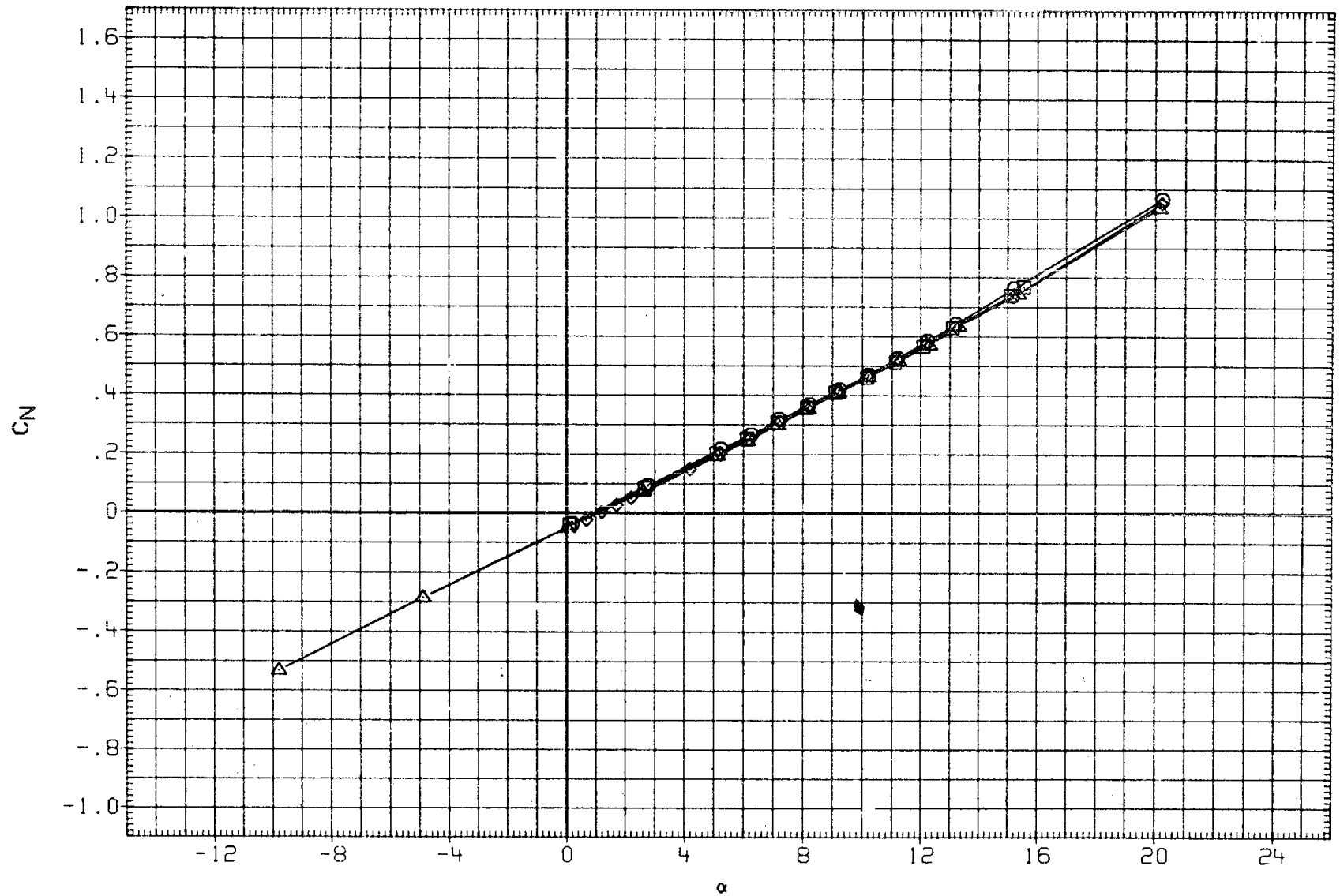

FIGURE 9. BASIC LONGITUDINAL

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

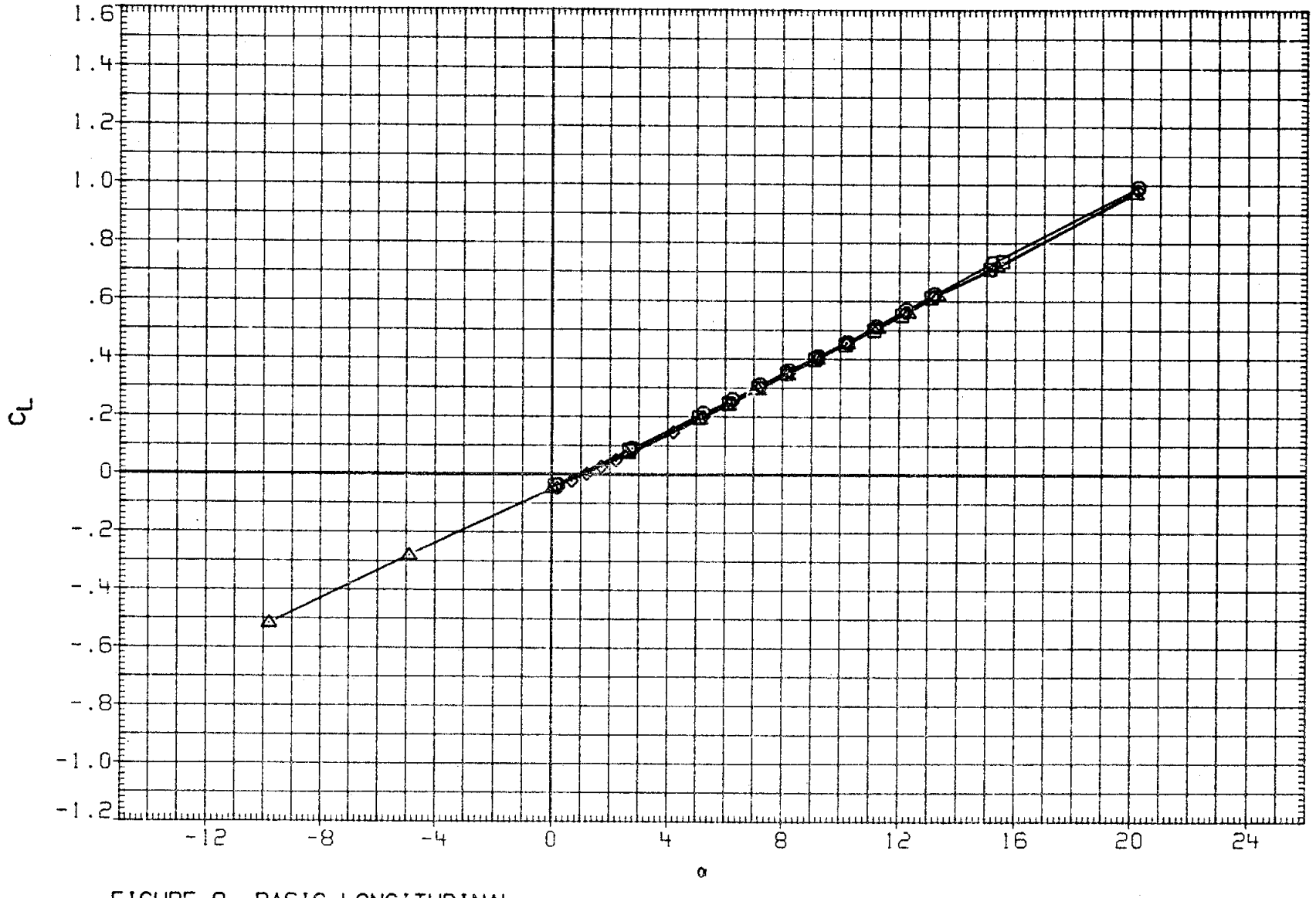

FIGURE 9. BASIC LONGITUDINAL

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

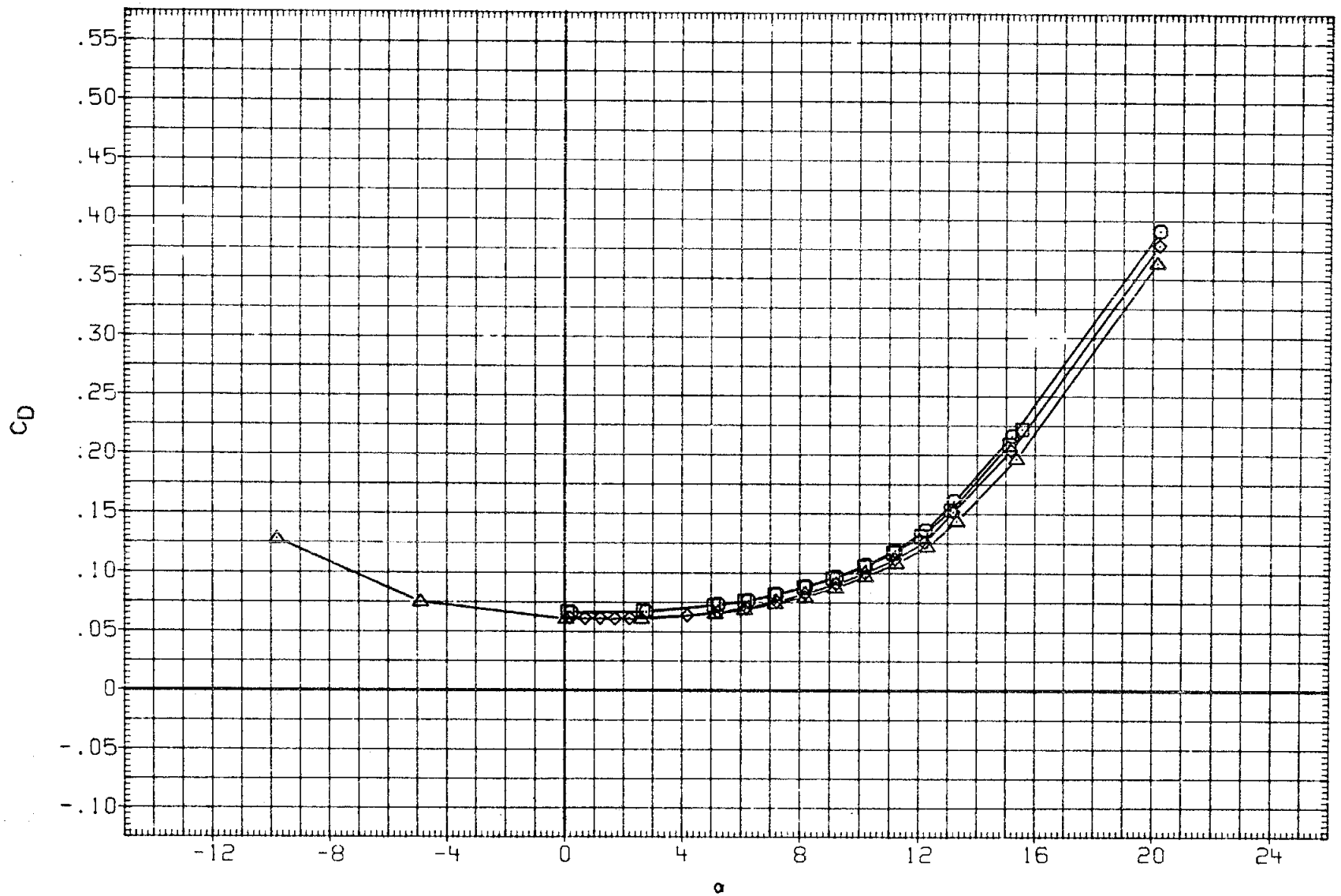

FIGURE 9. BASIC LONGITUDINAL

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

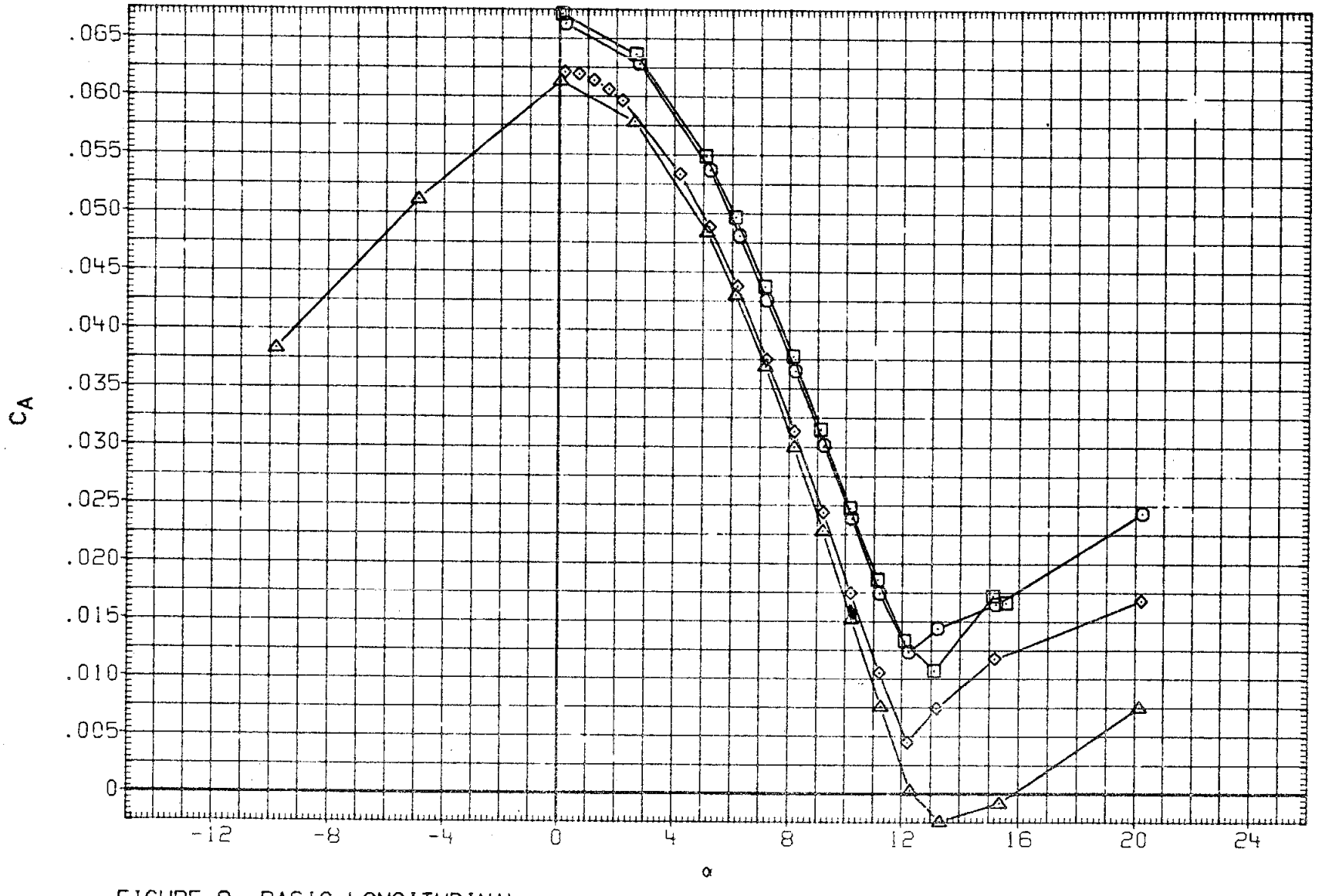

FIGURE 9. BASIC LONGITUDINAL

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

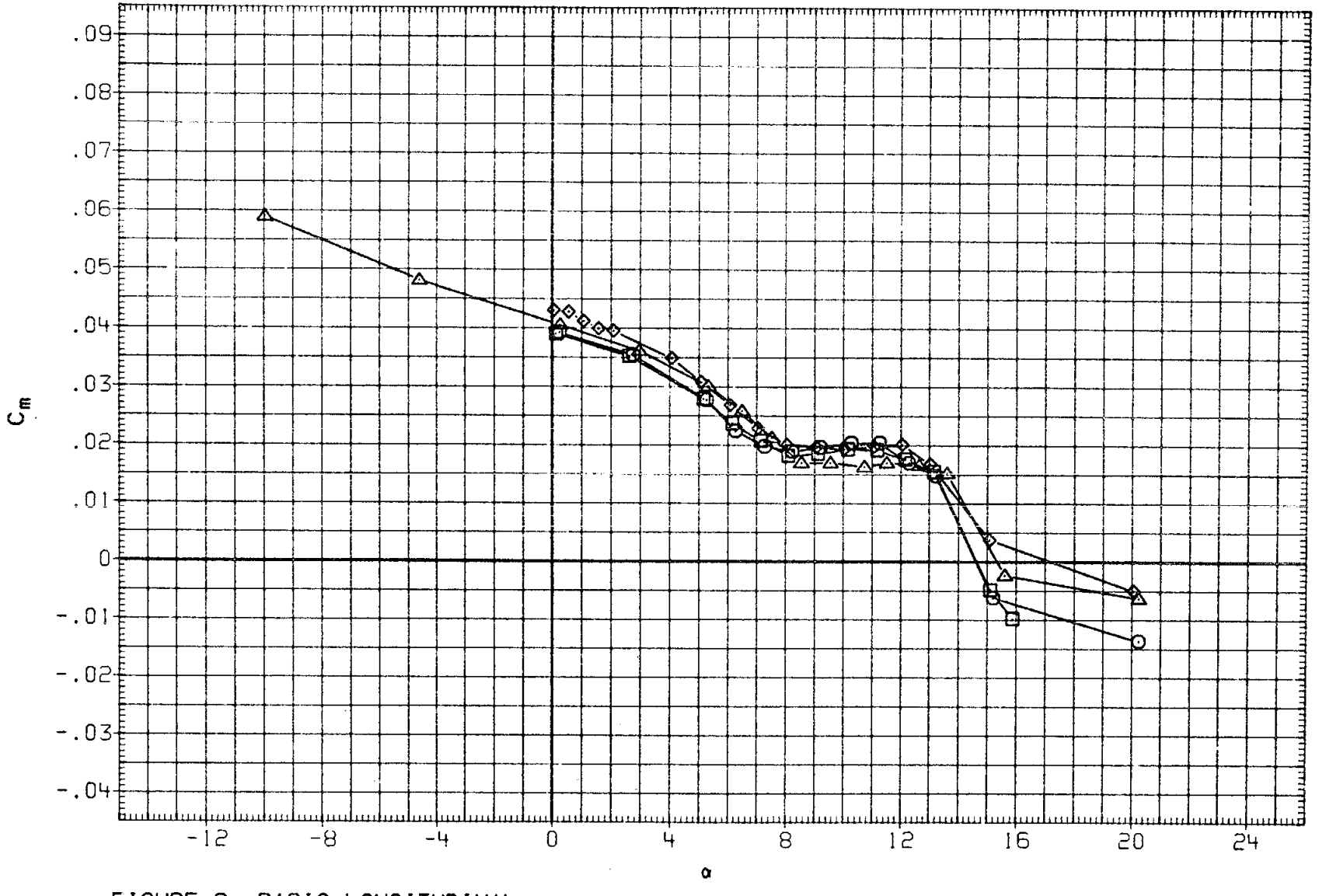

FIGURE 9. BASIC LONGITUDINAL

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

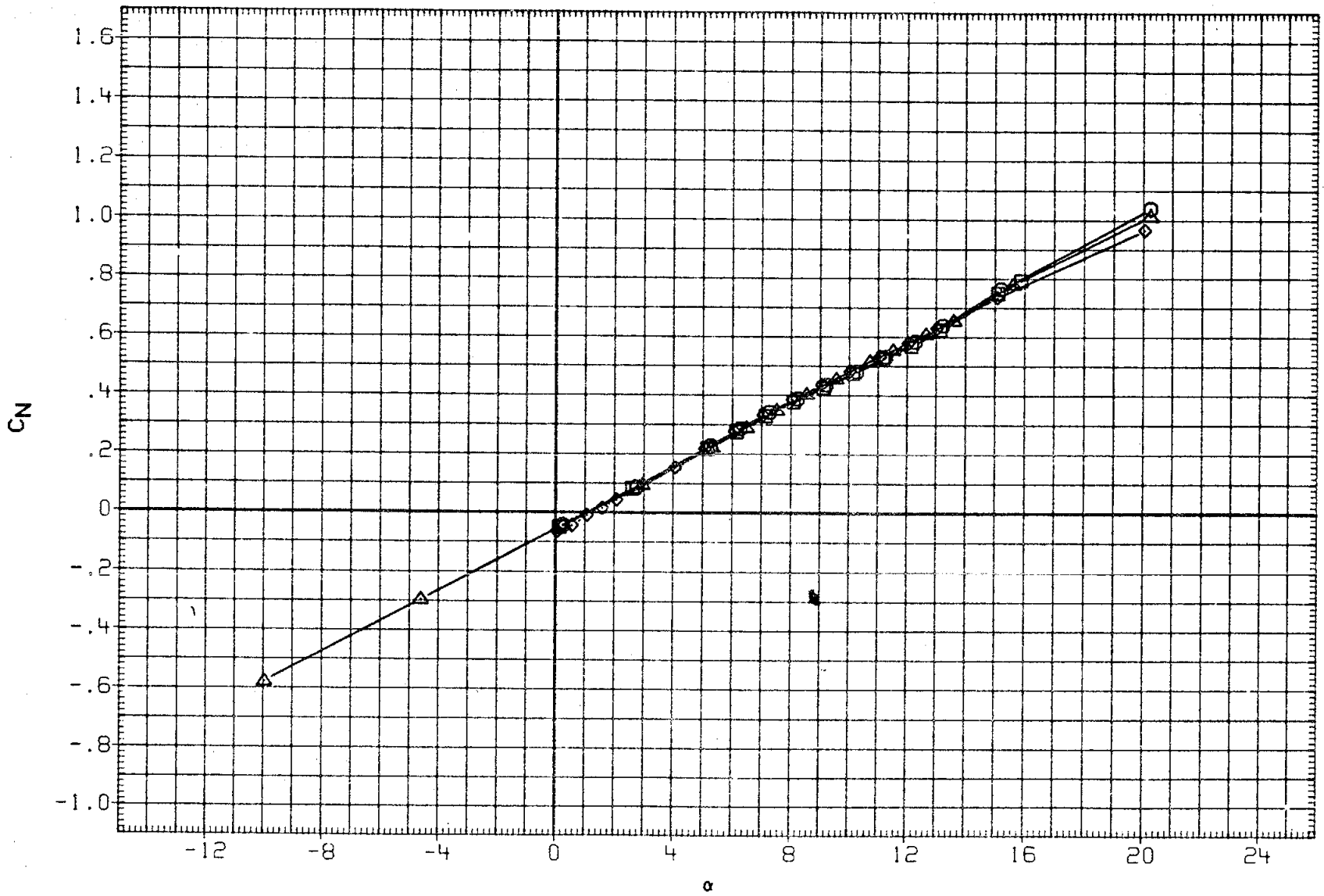

FIGURE 9. BASIC LONGITUDINAL

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

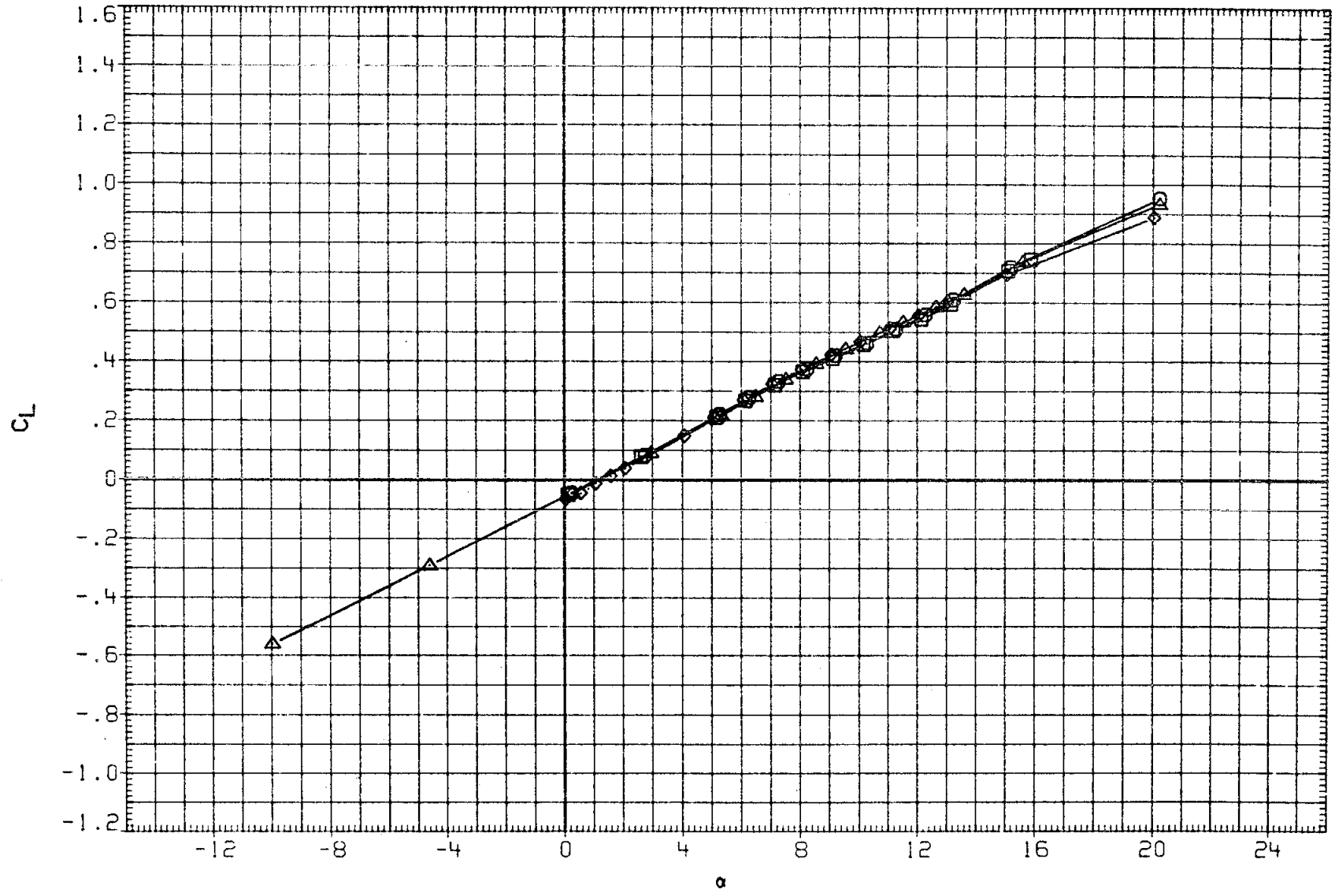

FIGURE 9. BASIC LONGITUDINAL

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

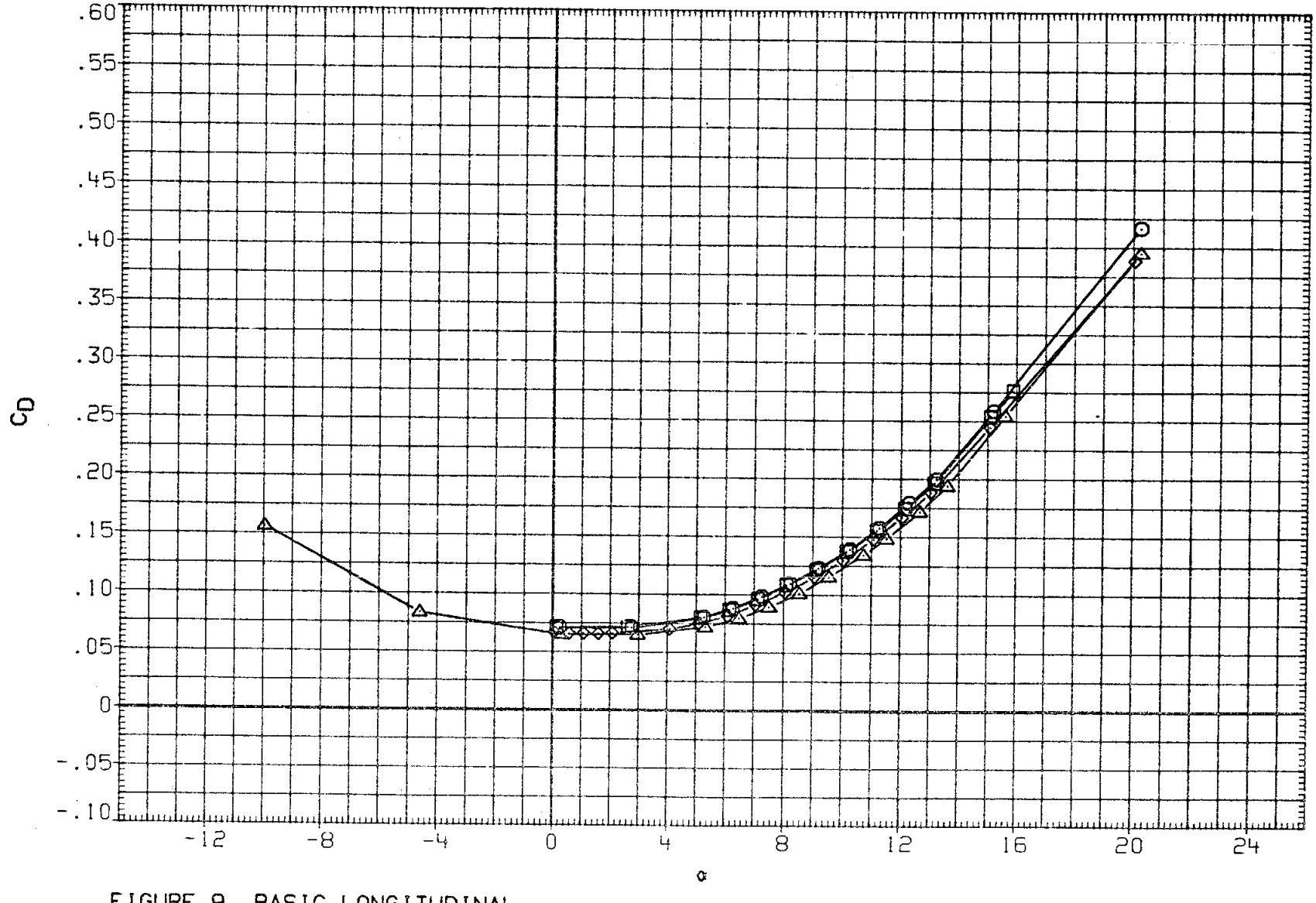

FIGURE 9. BASIC LONGITUDINAL

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2FC12	△	AMES 11B-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

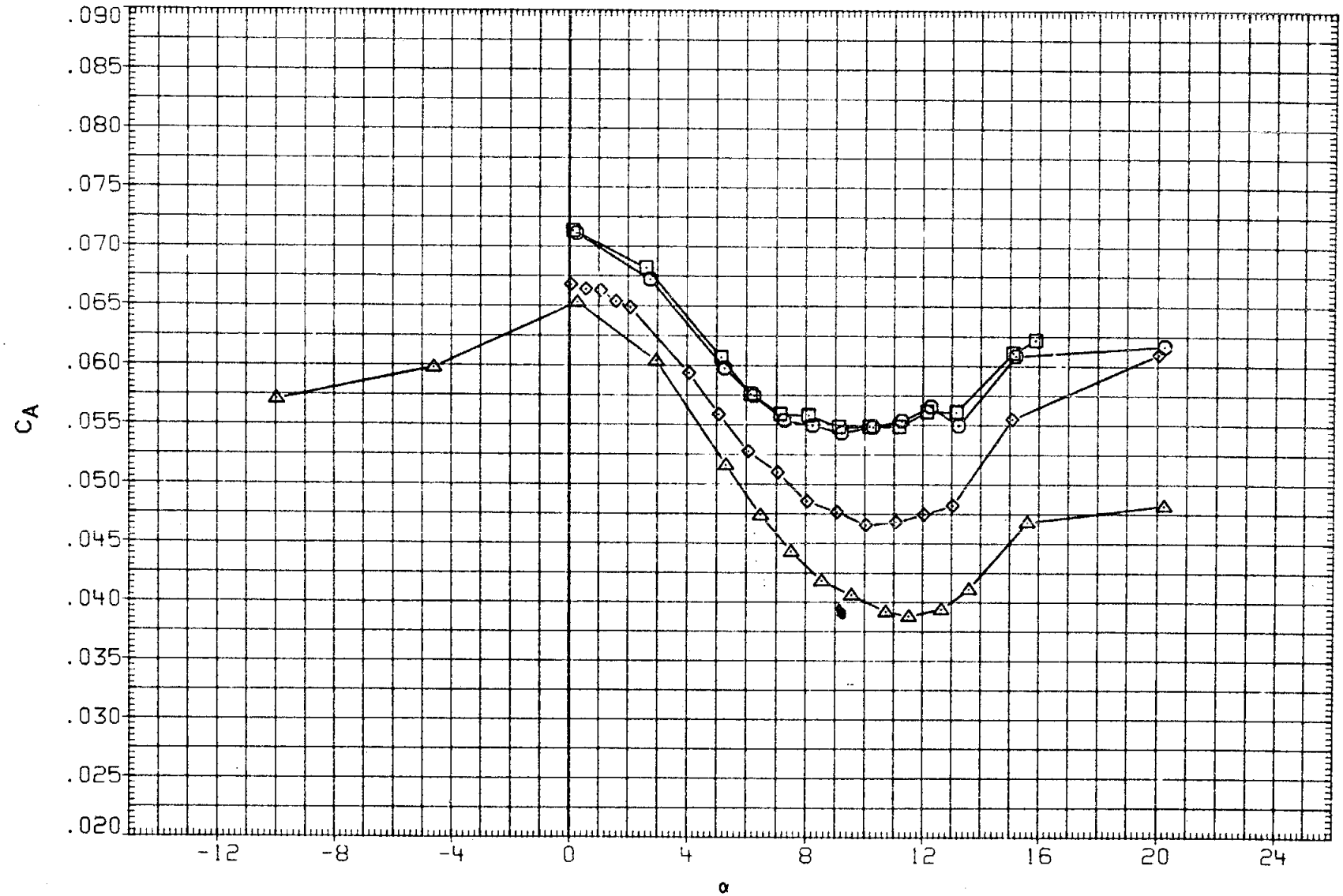

FIGURE 9. BASIC LONGITUDINAL

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 11B-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

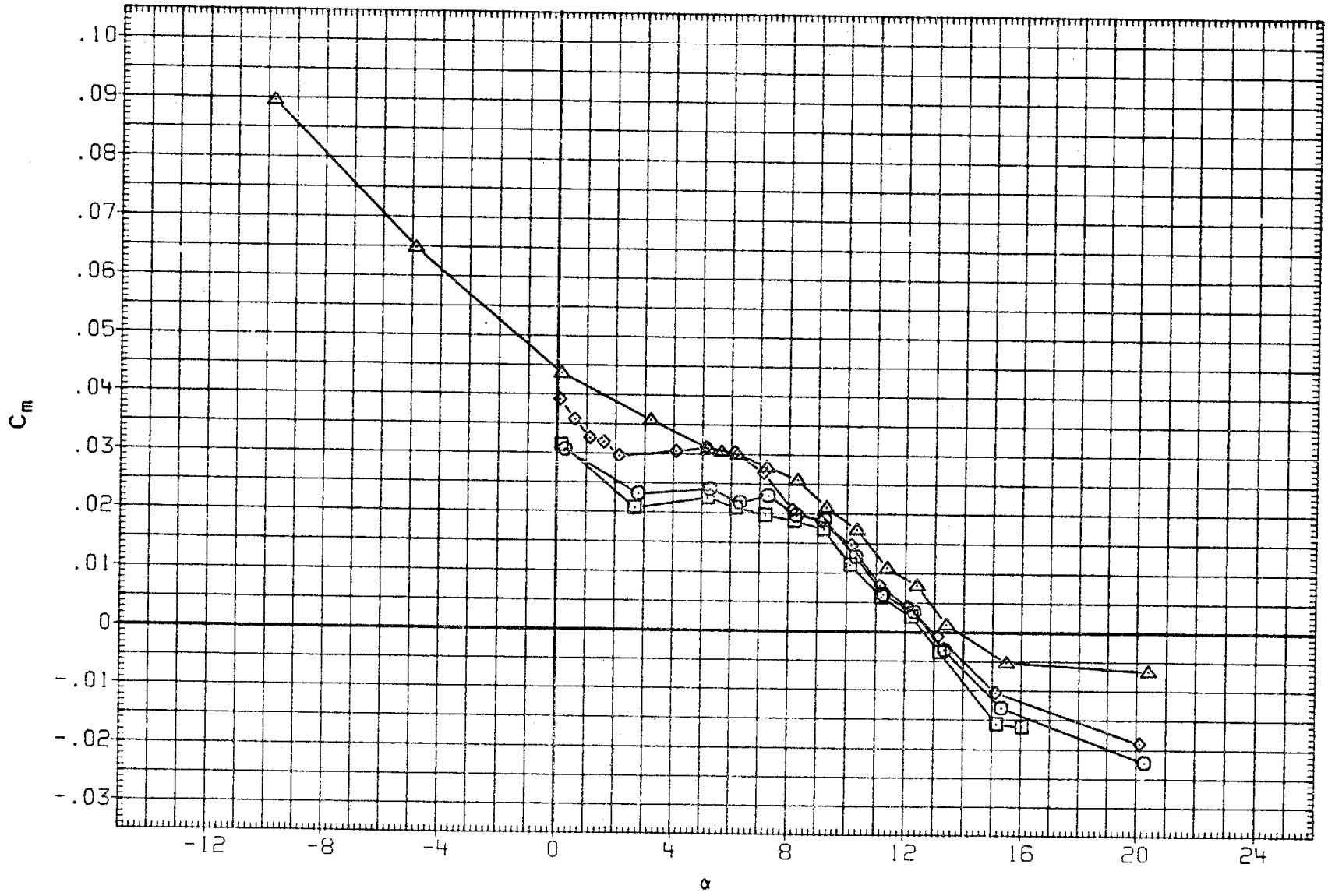

FIGURE 9. BASIC LONGITUDINAL

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

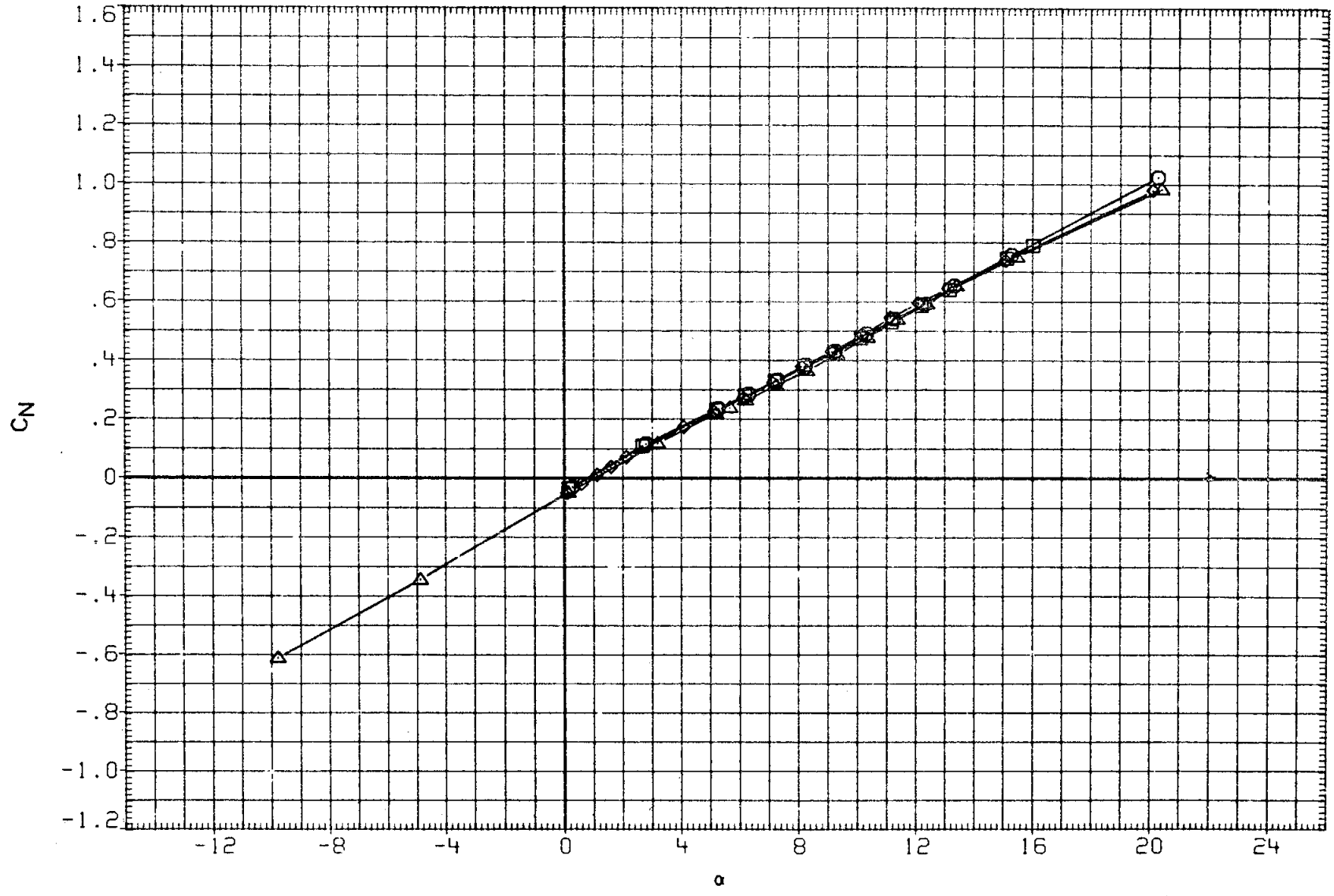

FIGURE 9. BASIC LONGITUDINAL

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	◇	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	25.000	.000	

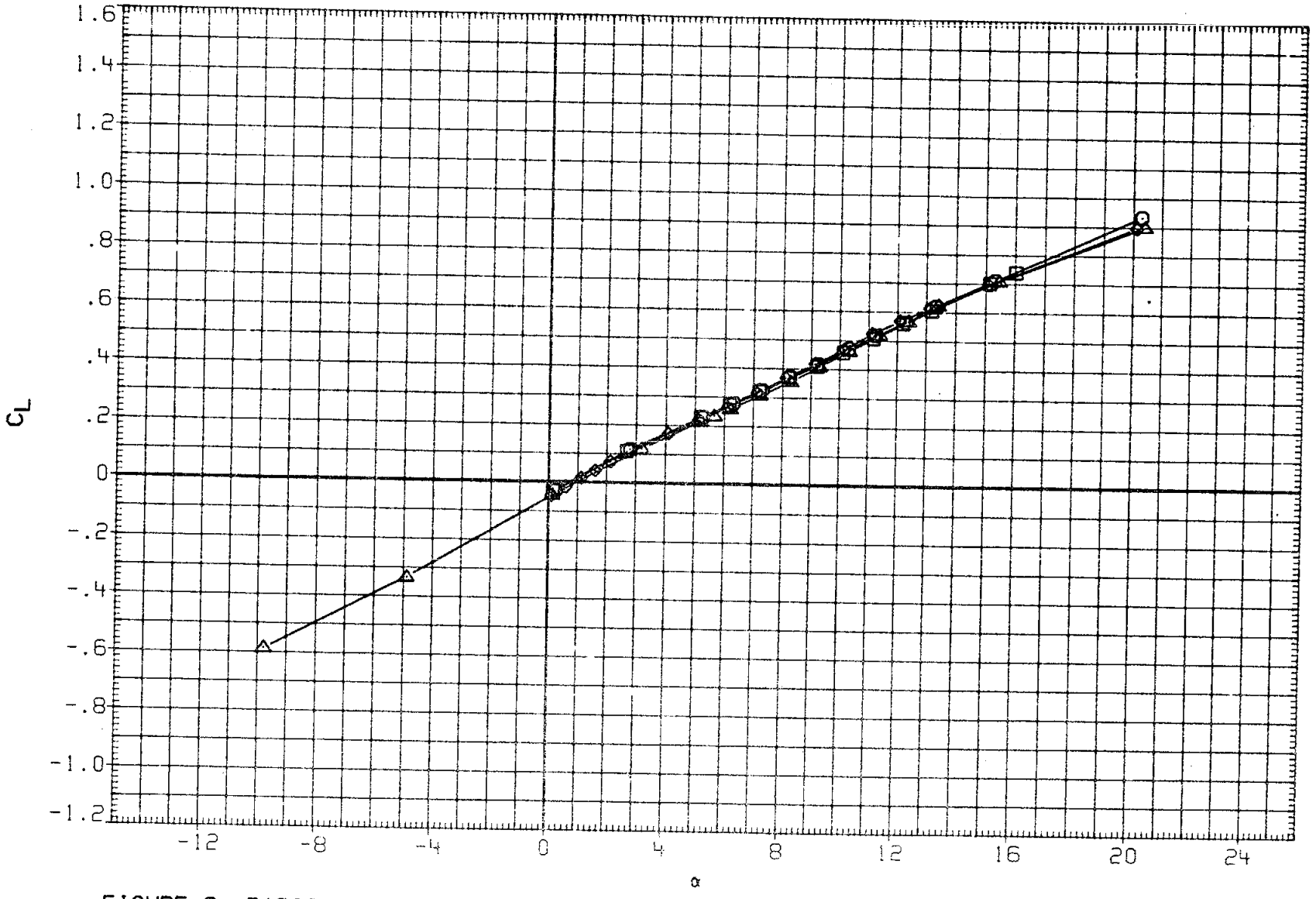

FIGURE 9. BASIC LONGITUDINAL

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 11B-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

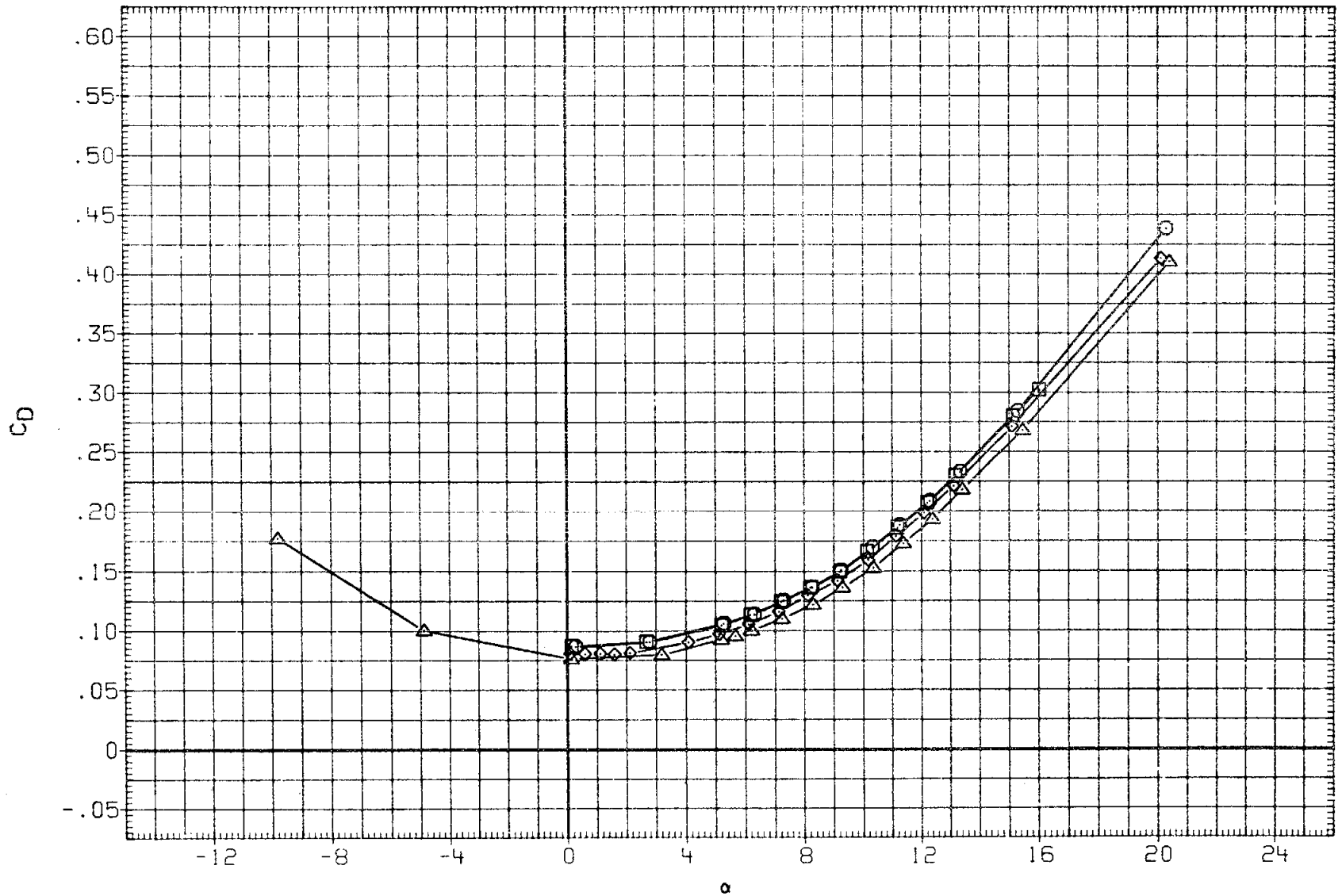

FIGURE 9. BASIC LONGITUDINAL

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 11B-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

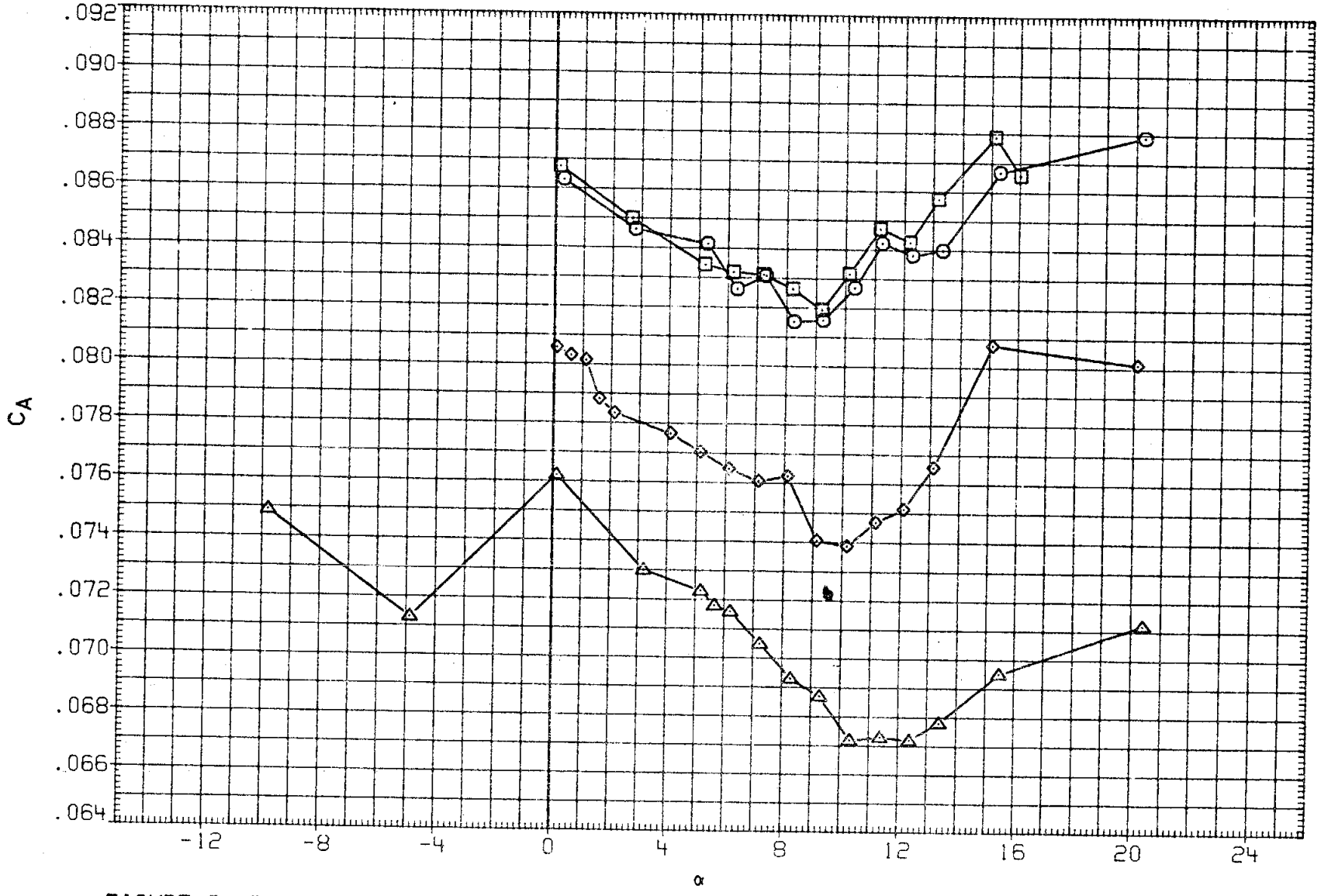

FIGURE 9. BASIC LONGITUDINAL

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

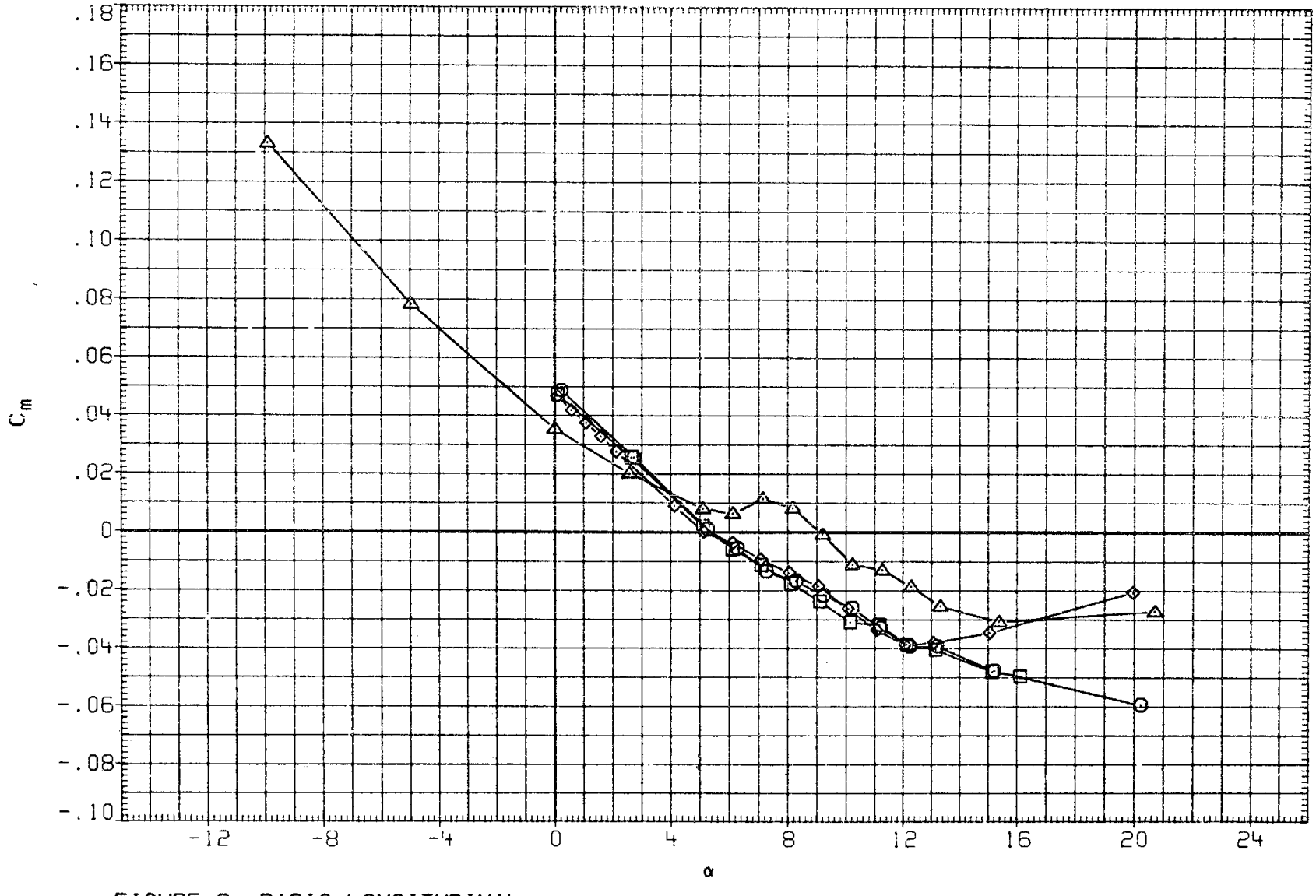

FIGURE 9. BASIC LONGITUDINAL

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

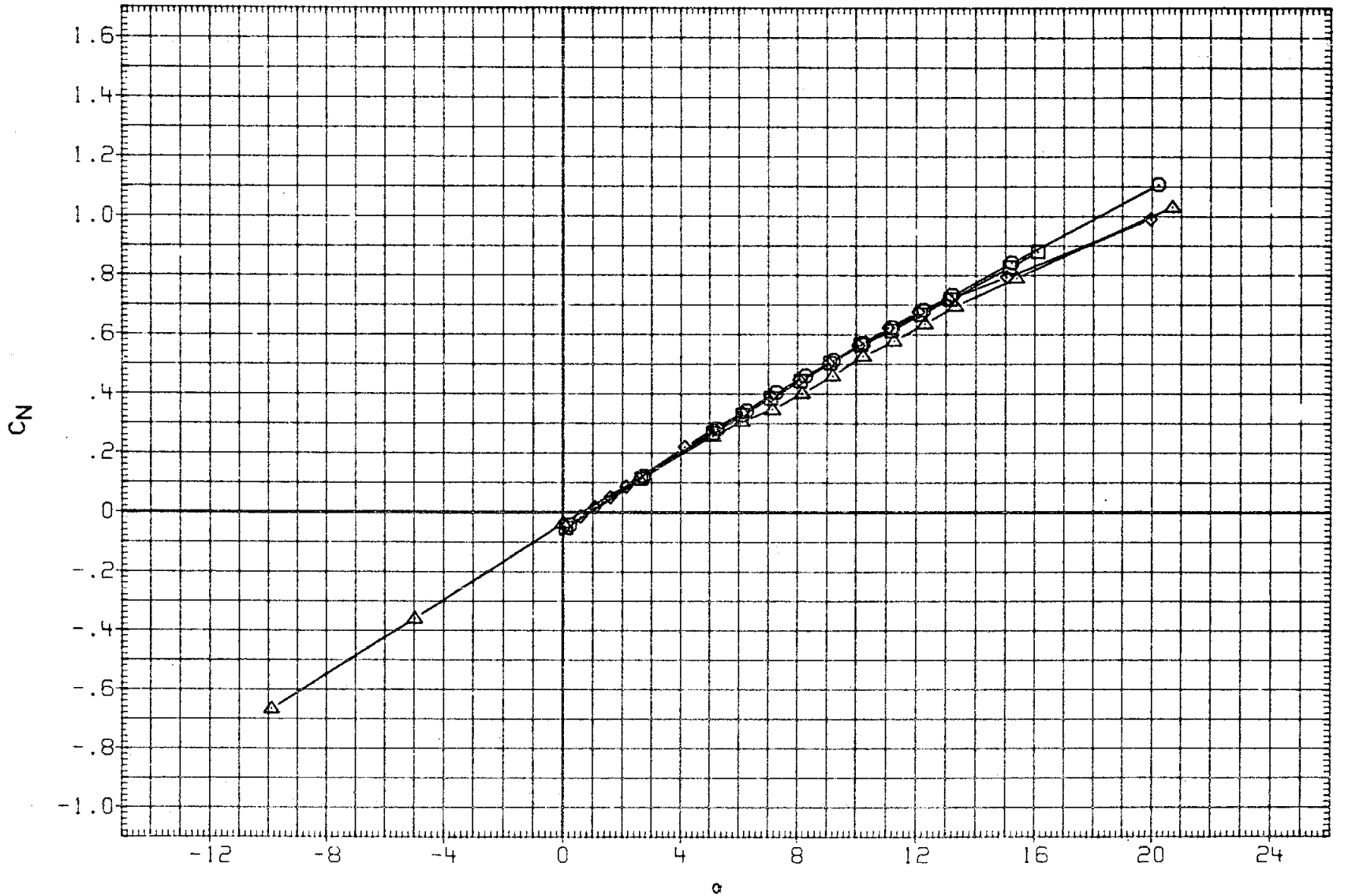

FIGURE 9. BASIC LONGITUDINAL

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 11B-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

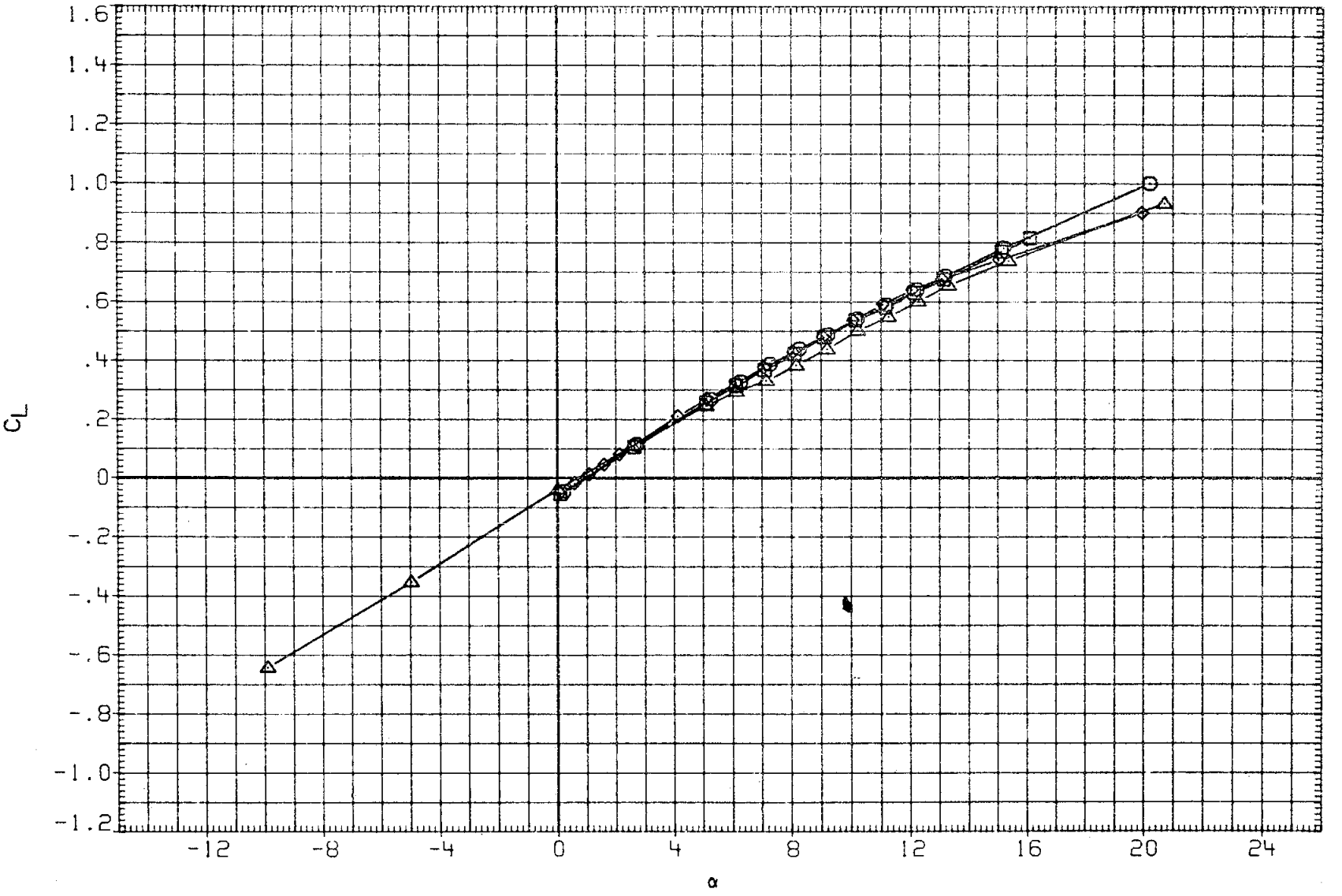

FIGURE 9. BASIC LONGITUDINAL

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-I-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

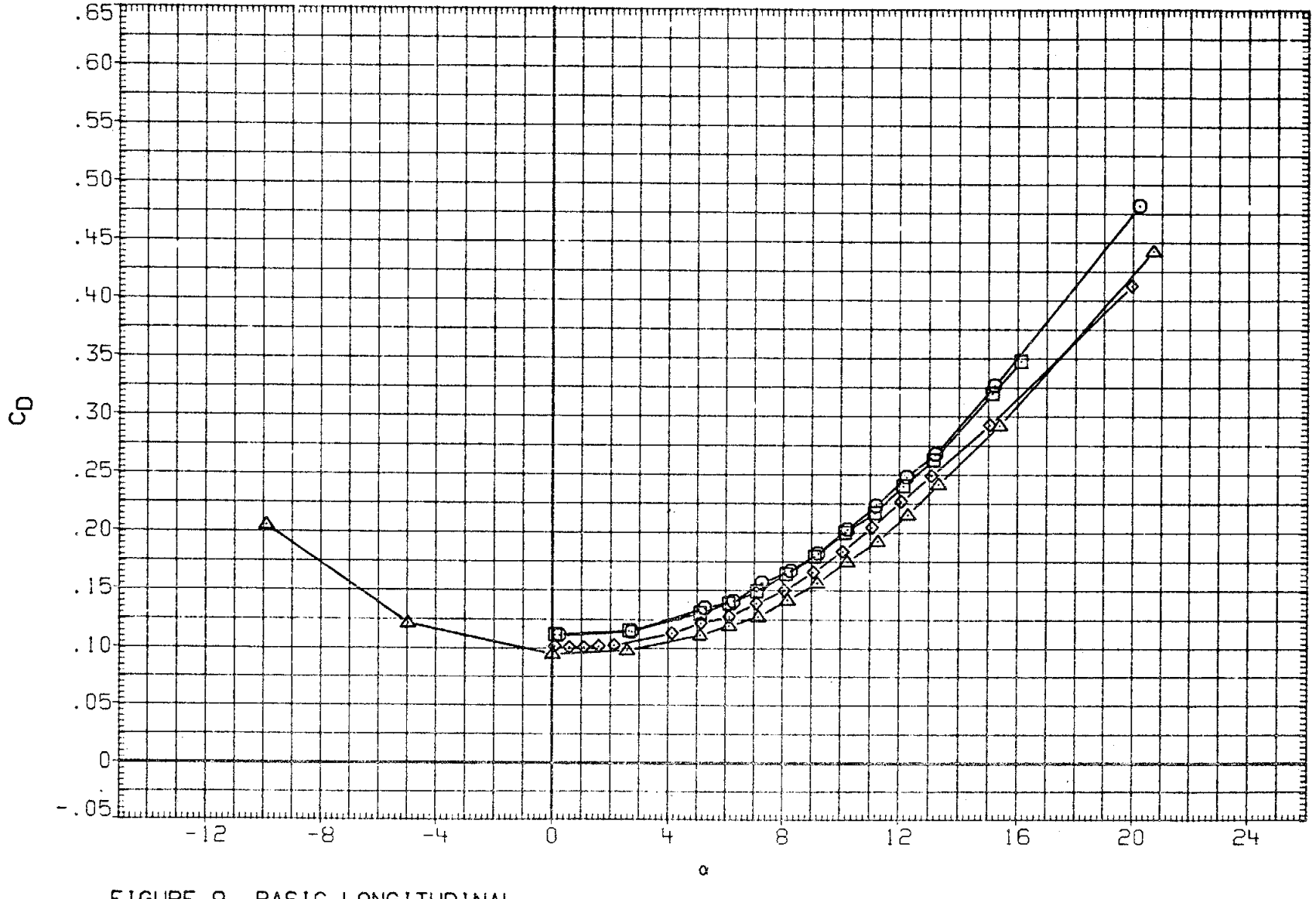

FIGURE 9. BASIC LONGITUDINAL

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	◇	LARC 16F. TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 11X-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

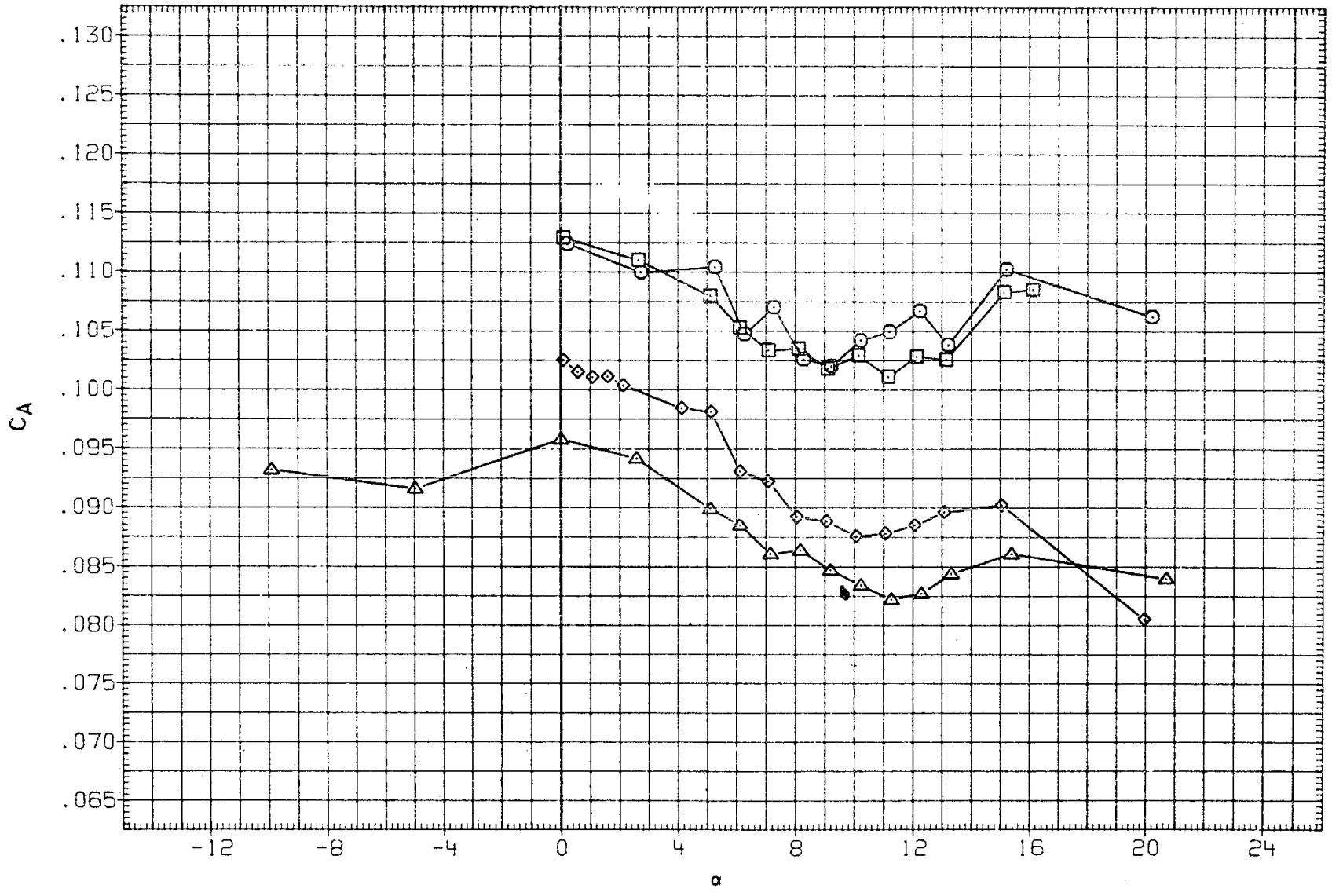

FIGURE 9. BASIC LONGITUDINAL

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	

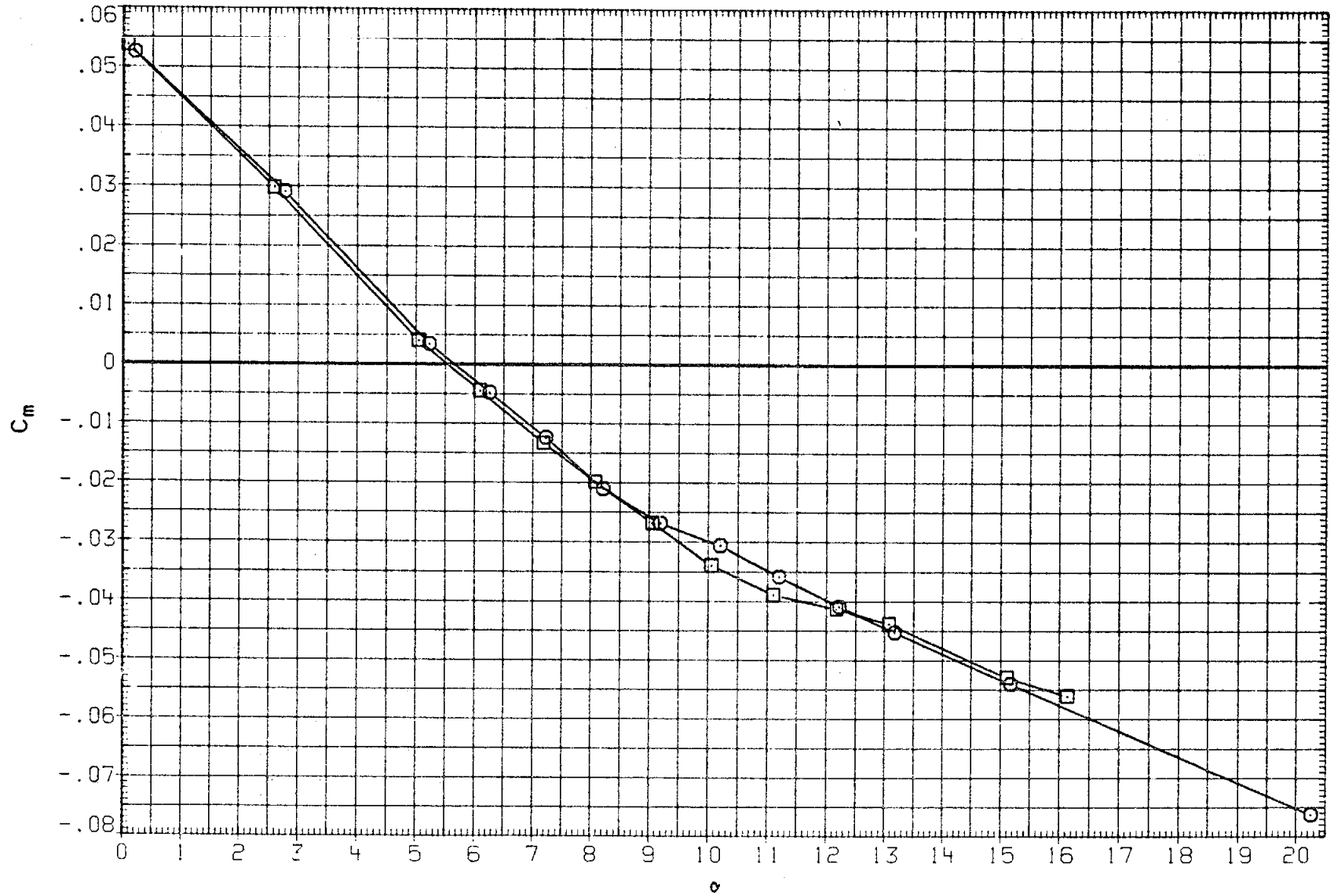

FIGURE 9. BASIC LONGITUDINAL

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	

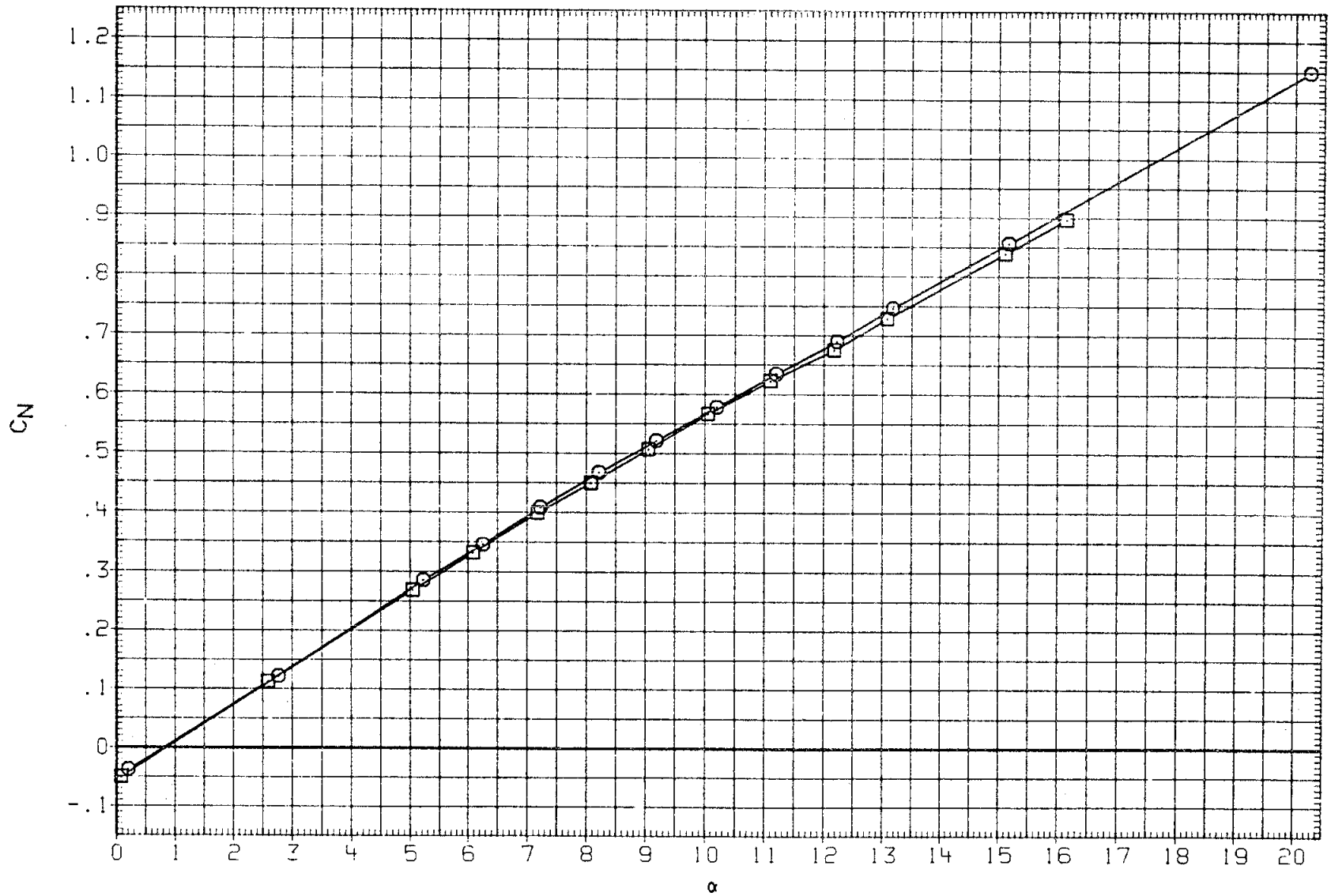

FIGURE 9. BASIC LONGITUDINAL

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	

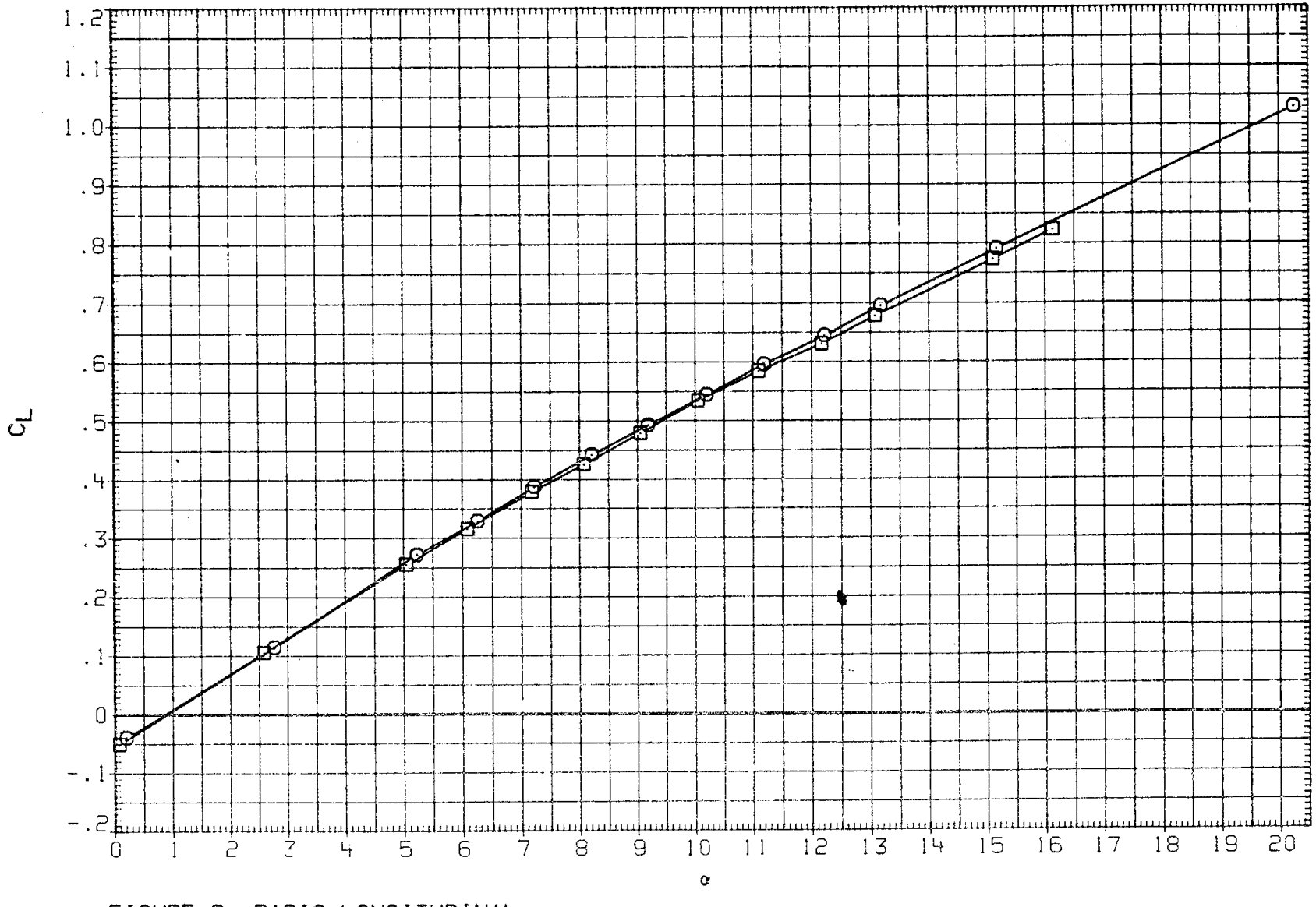

FIGURE 9. BASIC LONGITUDINAL

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	

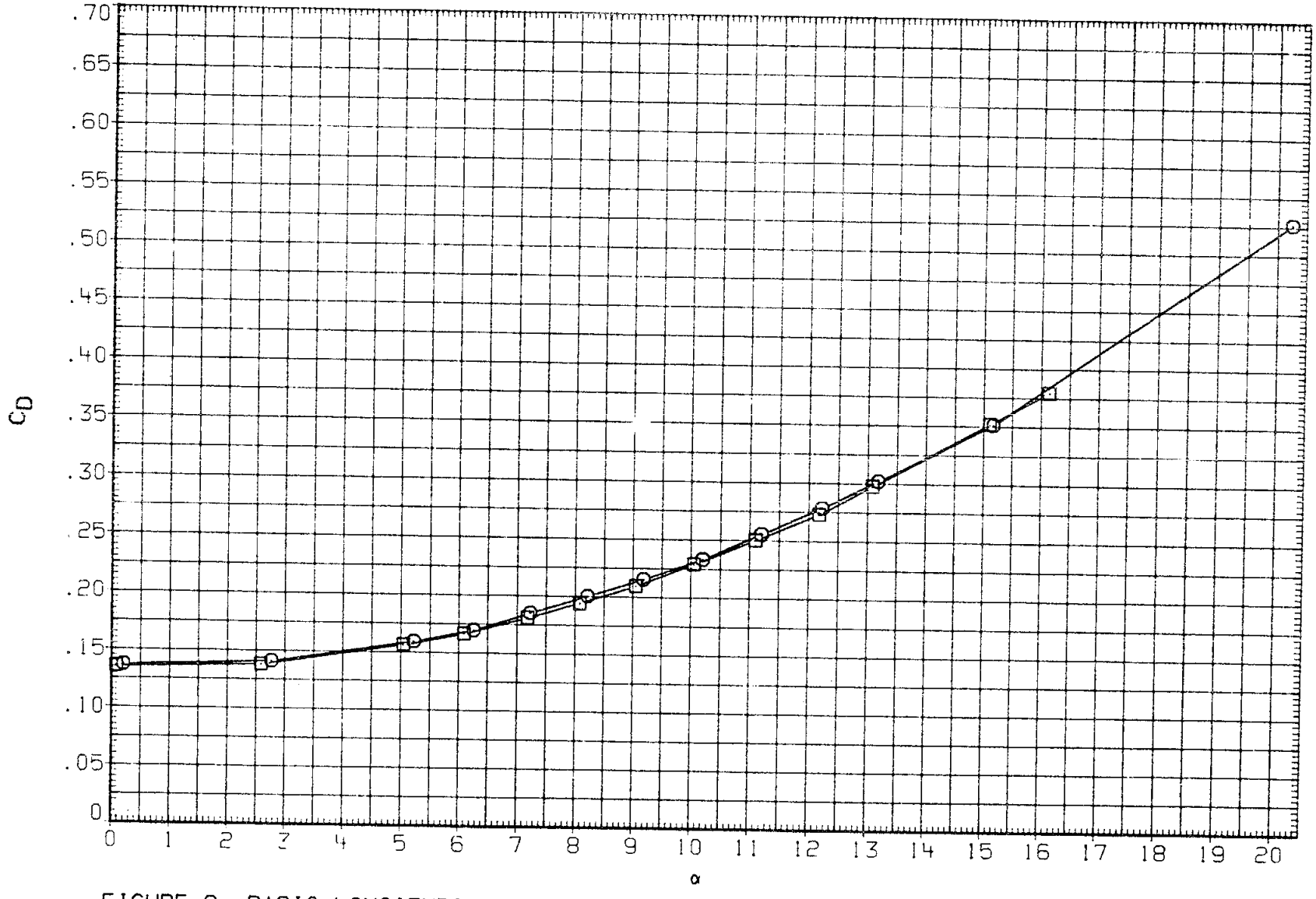

FIGURE 9. BASIC LONGITUDINAL

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	

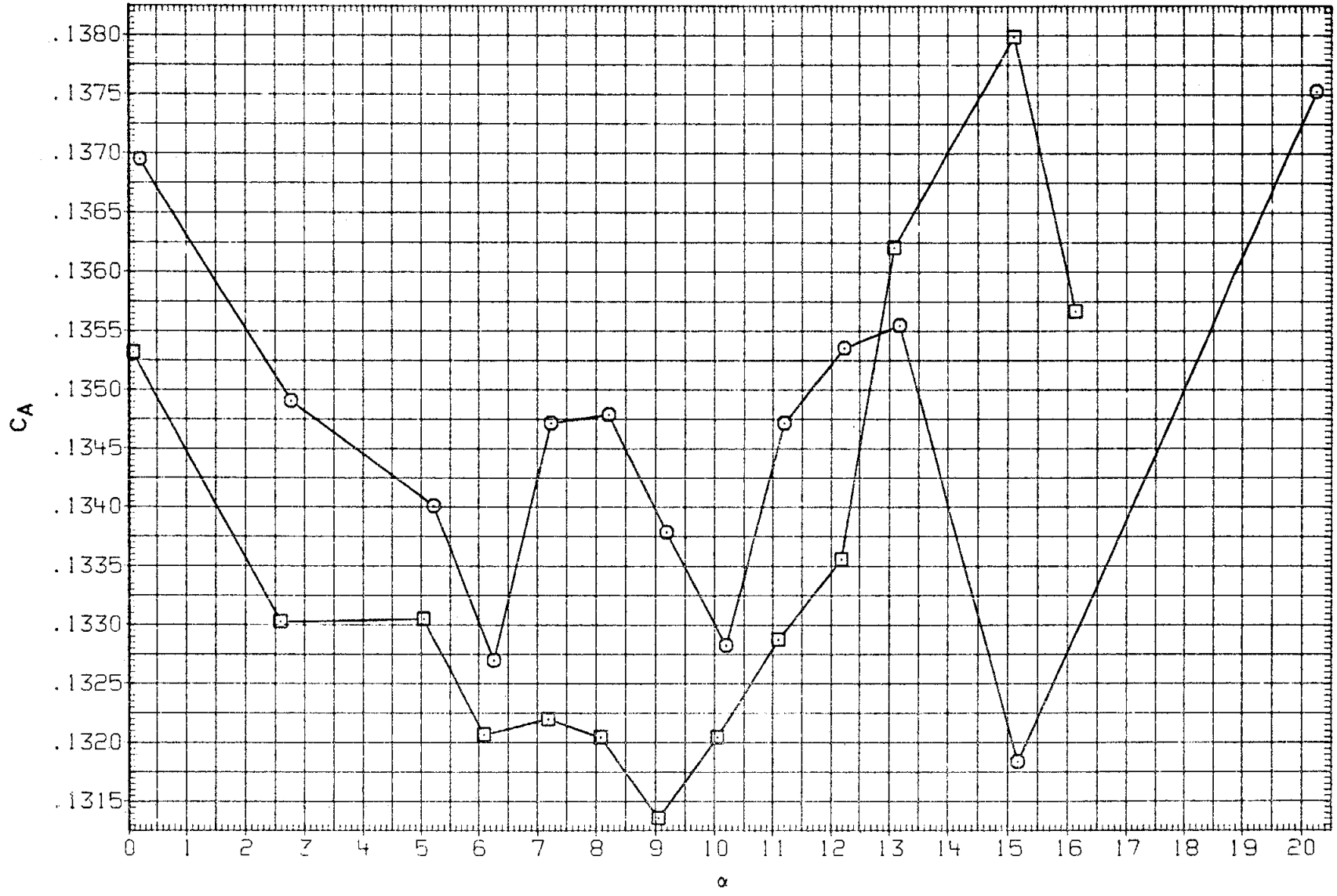

FIGURE 9. BASIC LONGITUDINAL

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	◇	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	25.000	.000	

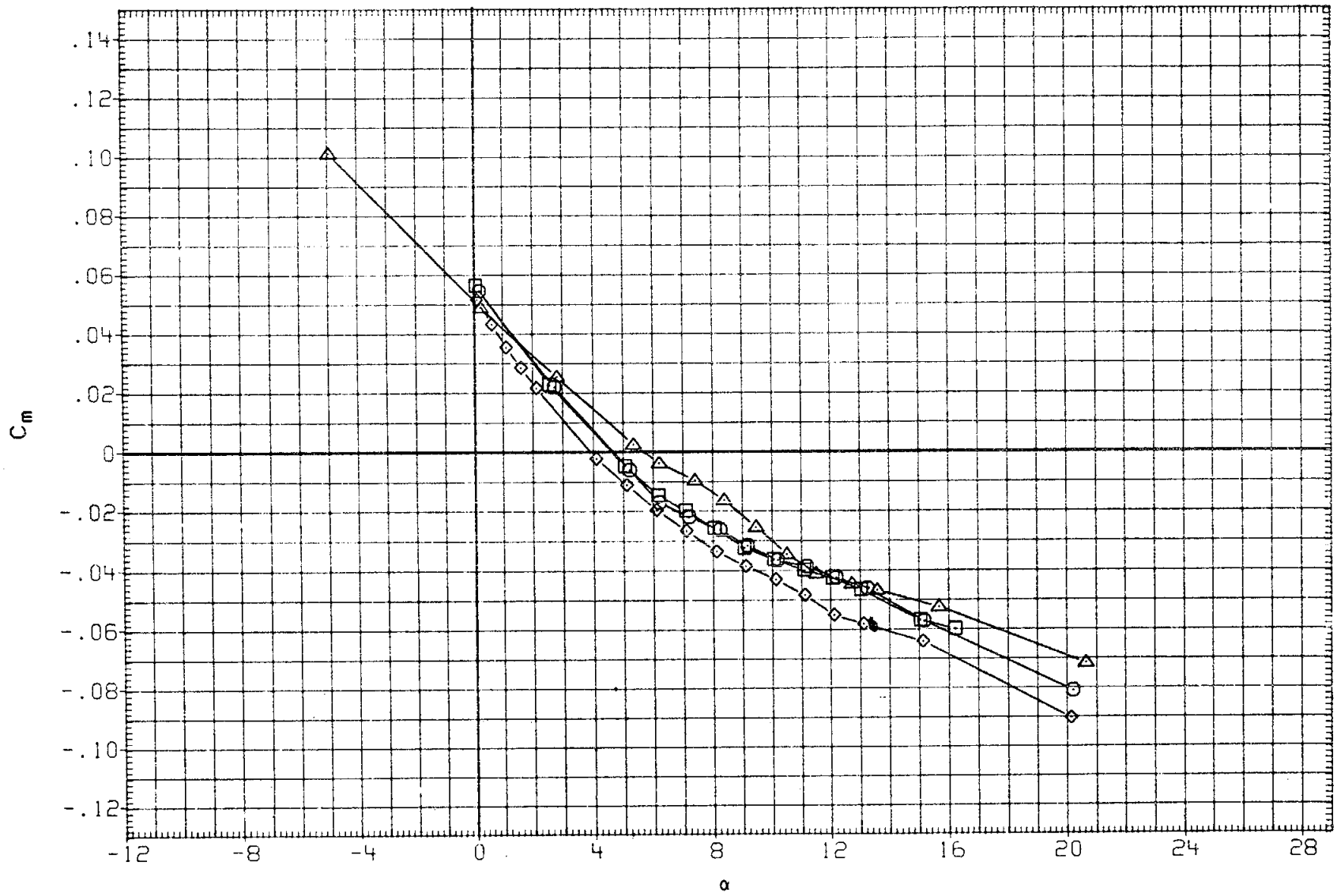

FIGURE 9. BASIC LONGITUDINAL

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

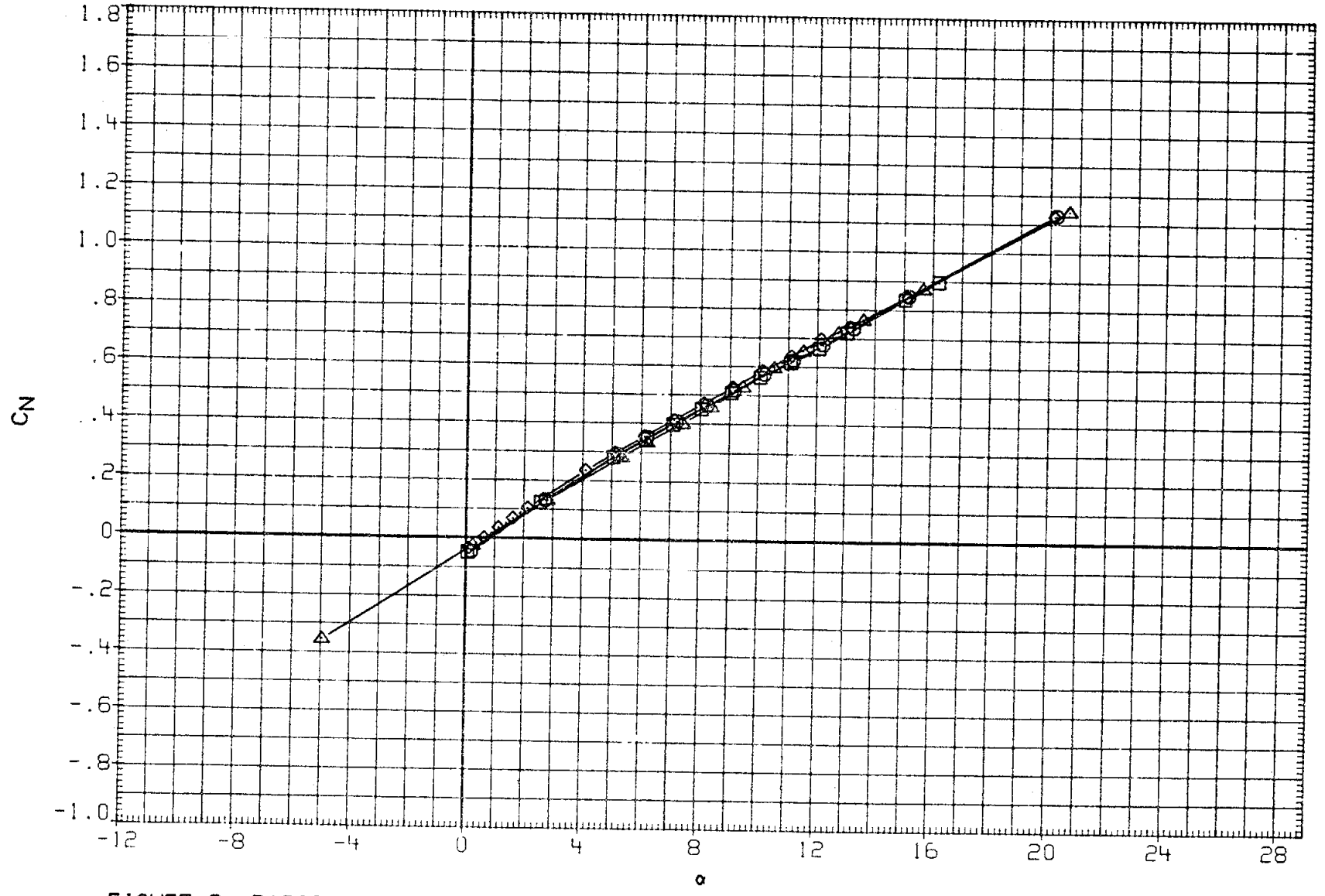

FIGURE 9. BASIC LONGITUDINAL

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

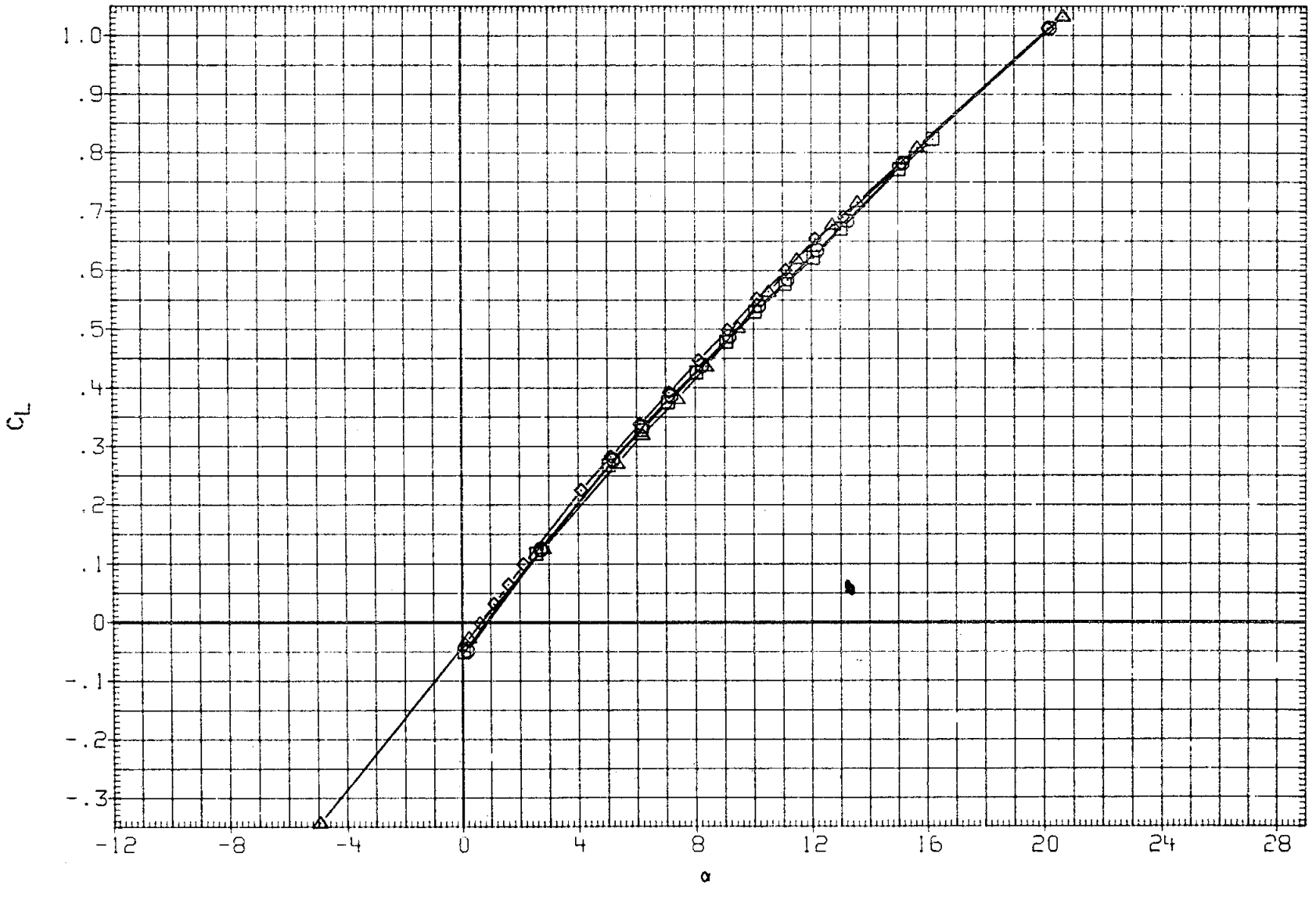

FIGURE 9. BASIC LONGITUDINAL

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

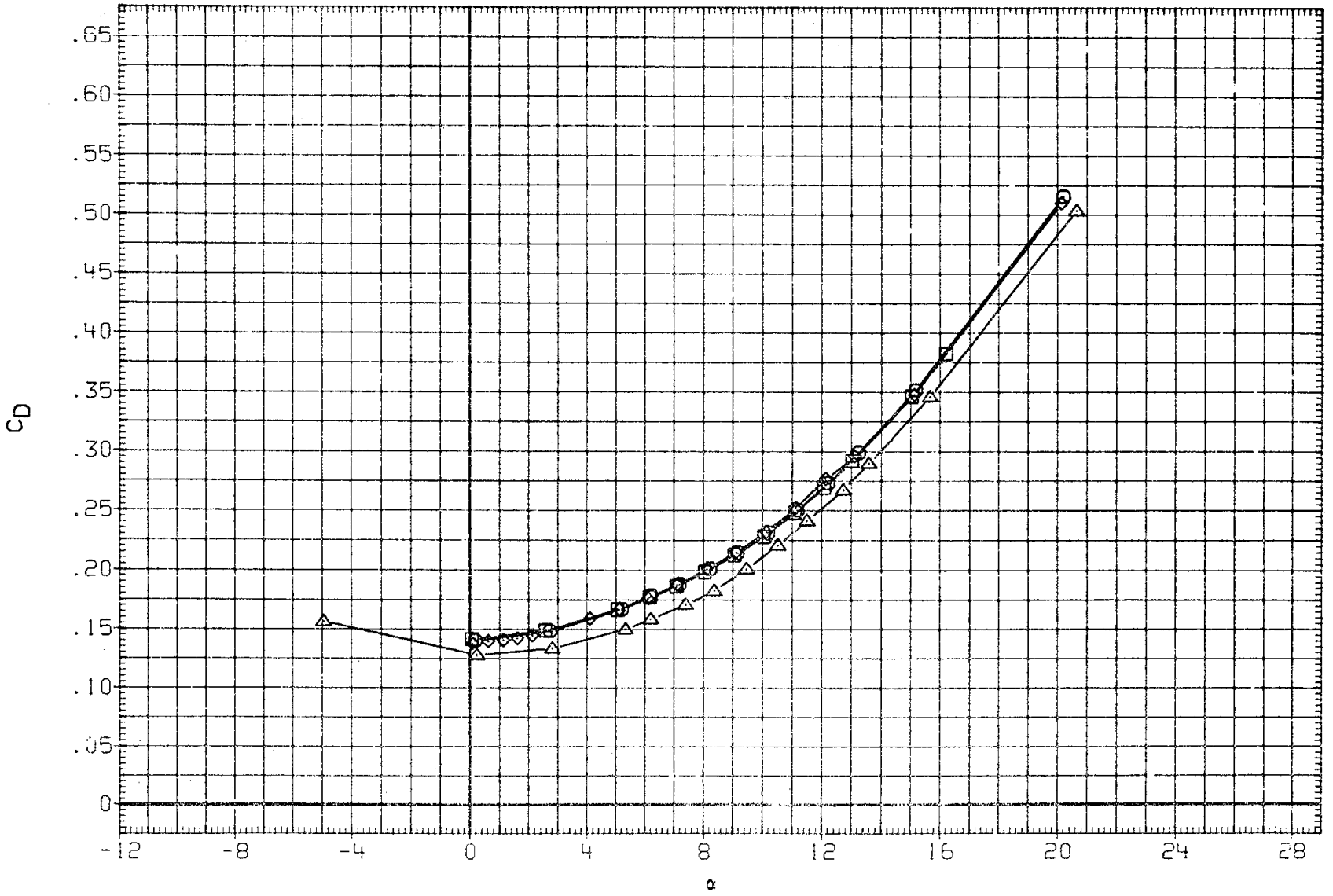

FIGURE 9. BASIC LONGITUDINAL

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 326(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	◇	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	25.000	.000	

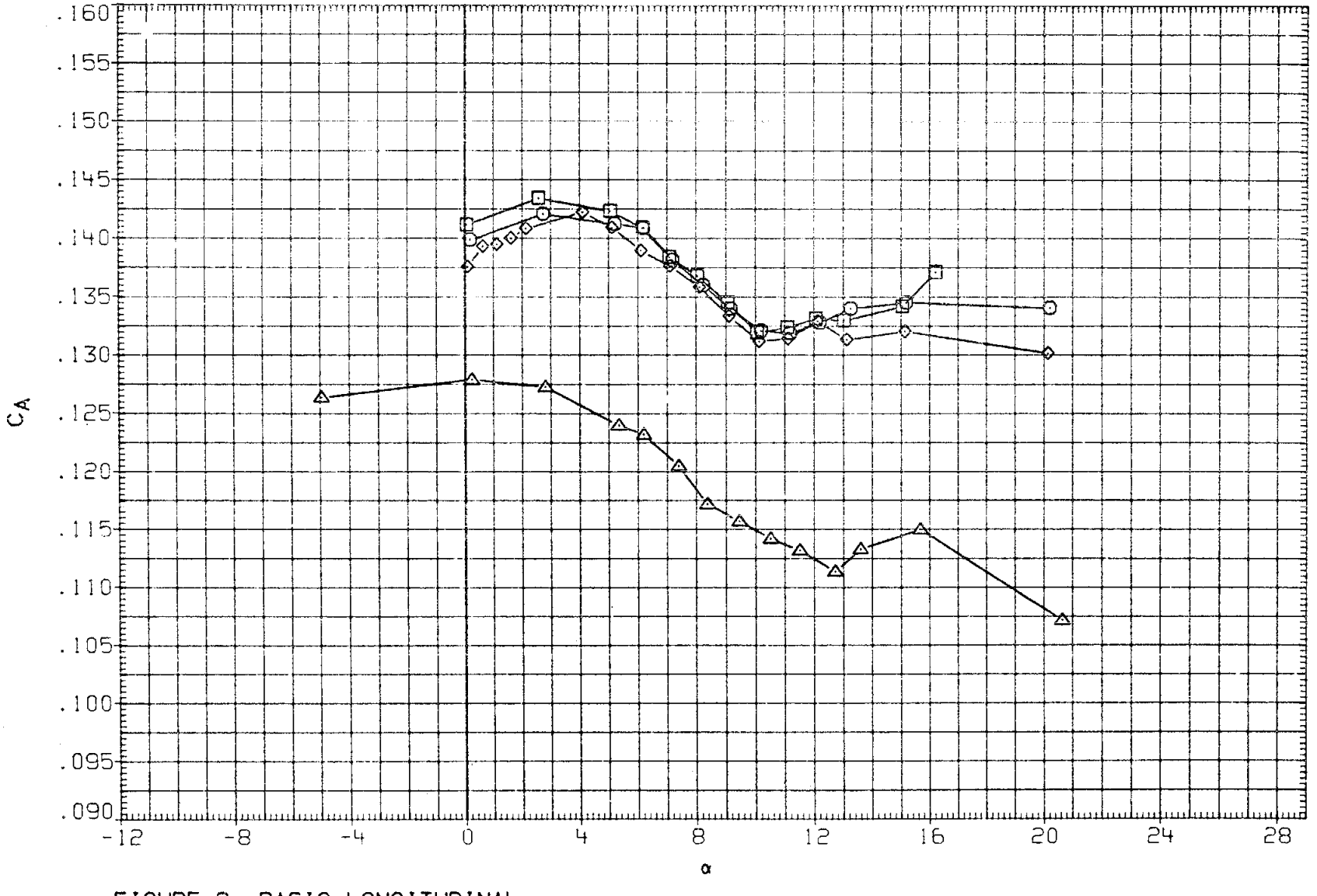

FIGURE 9. BASIC LONGITUDINAL

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

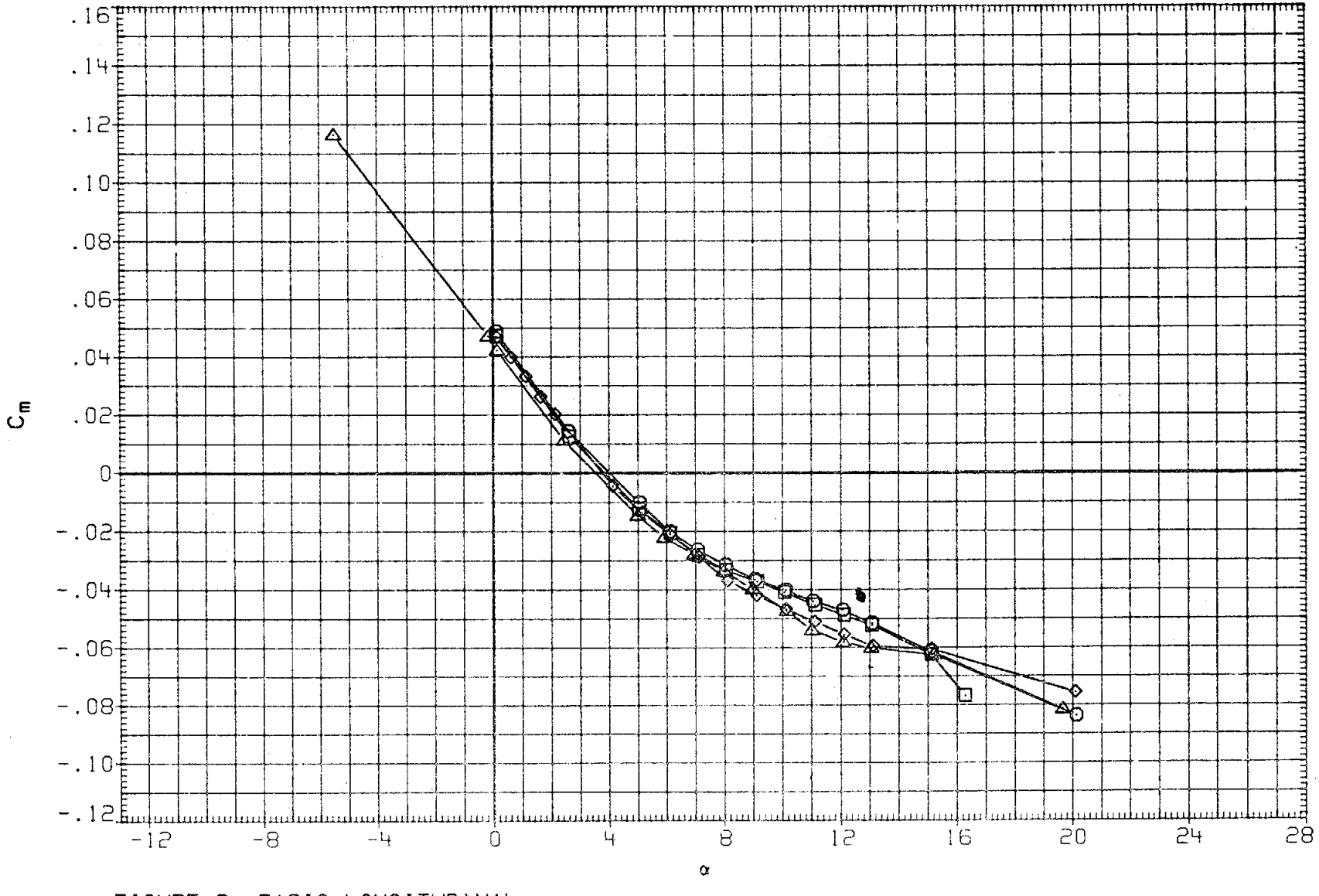

FIGURE 9. BASIC LONGITUDINAL

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	◇	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	25.000	.000	

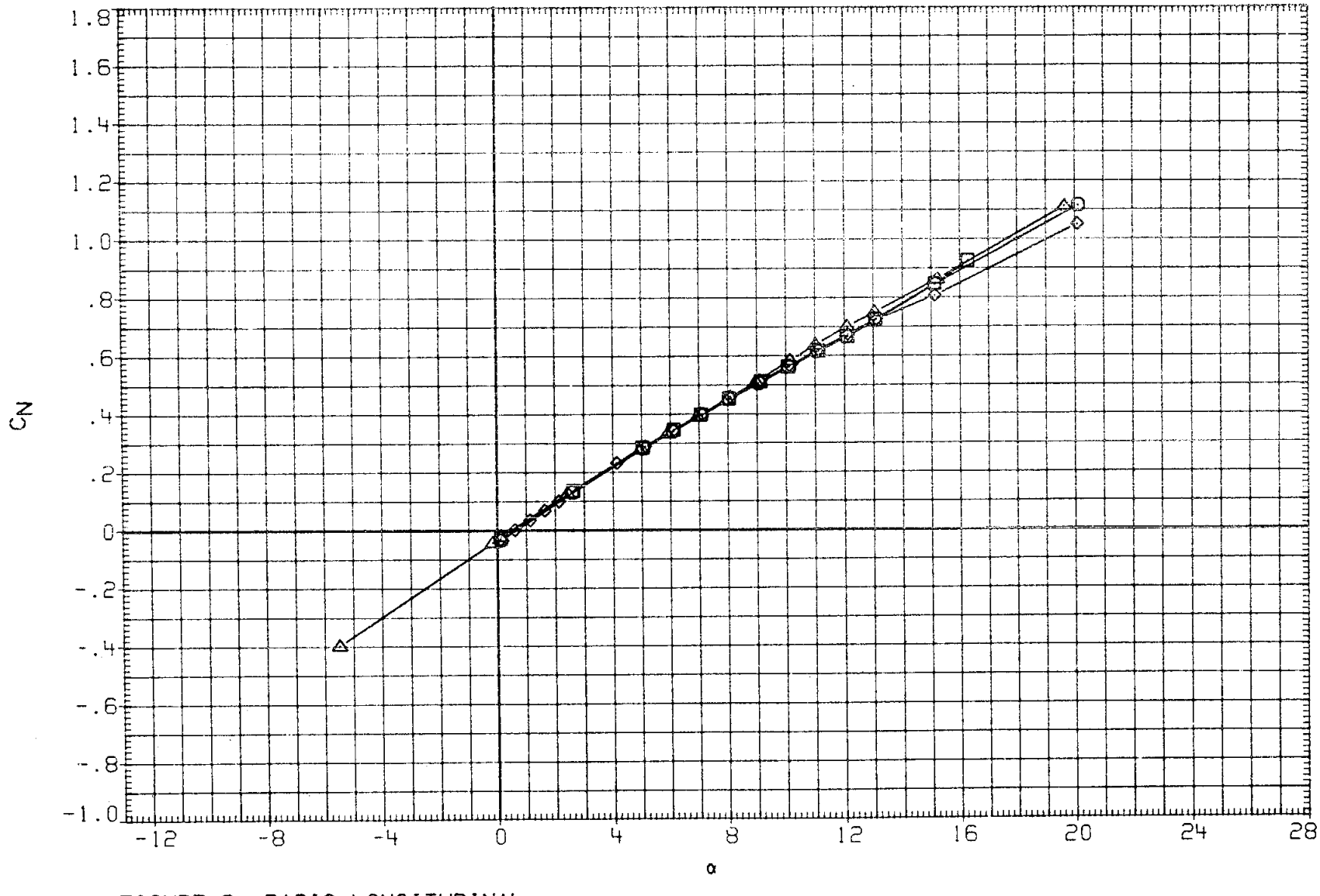

FIGURE 9. BASIC LONGITUDINAL

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 11B-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

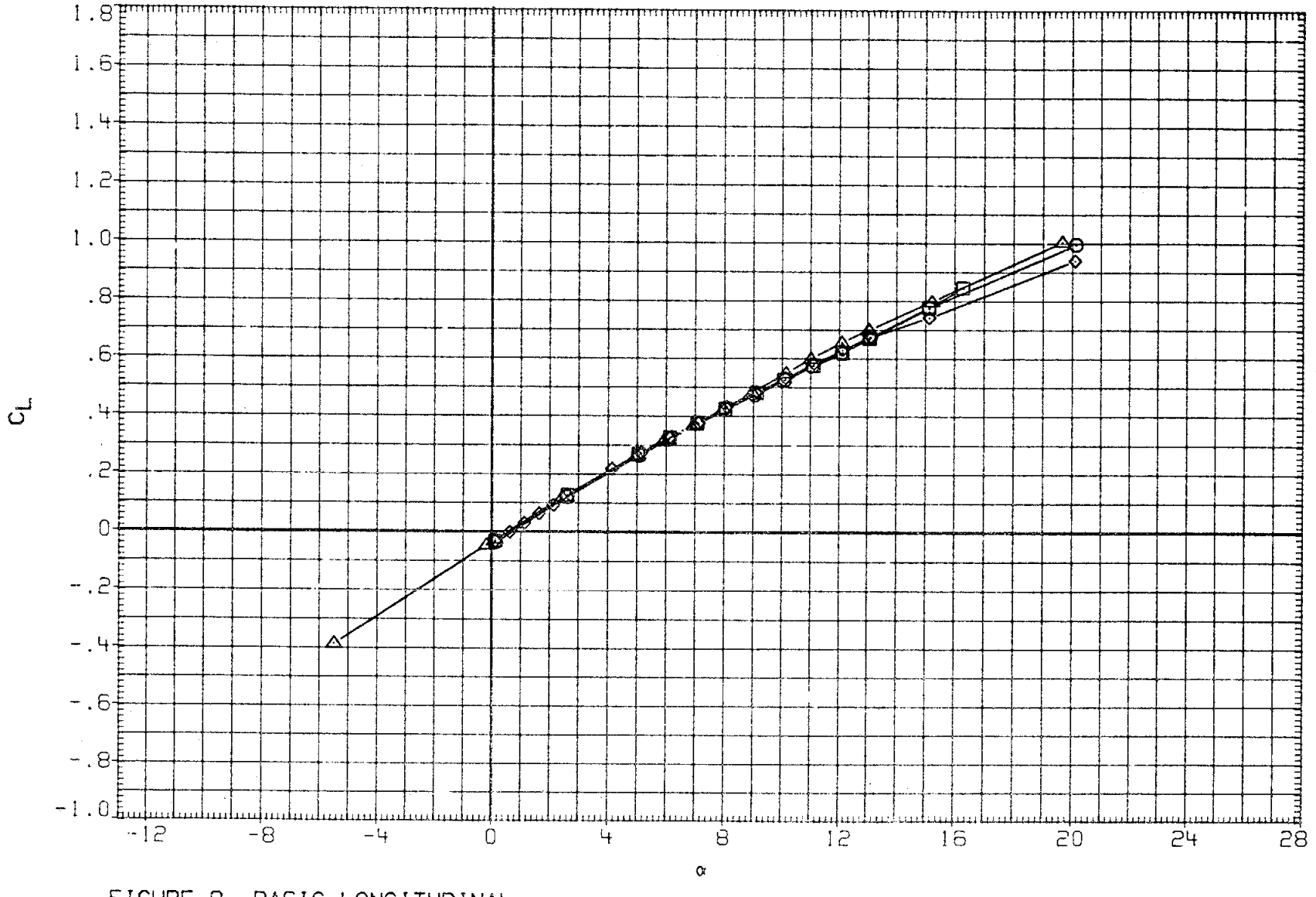

FIGURE 9. BASIC LONGITUDINAL

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN0	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

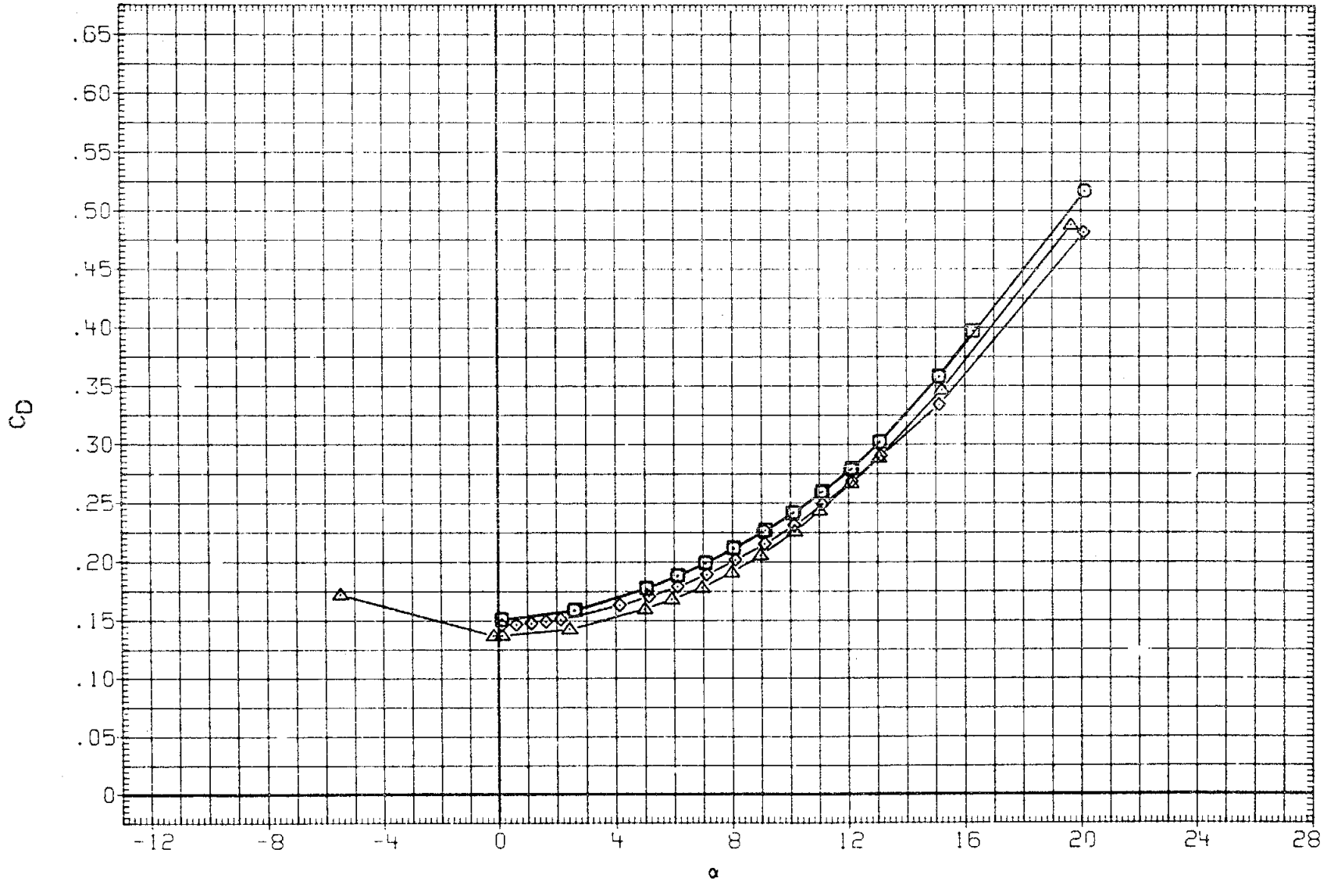

FIGURE 9. BASIC LONGITUDINAL

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

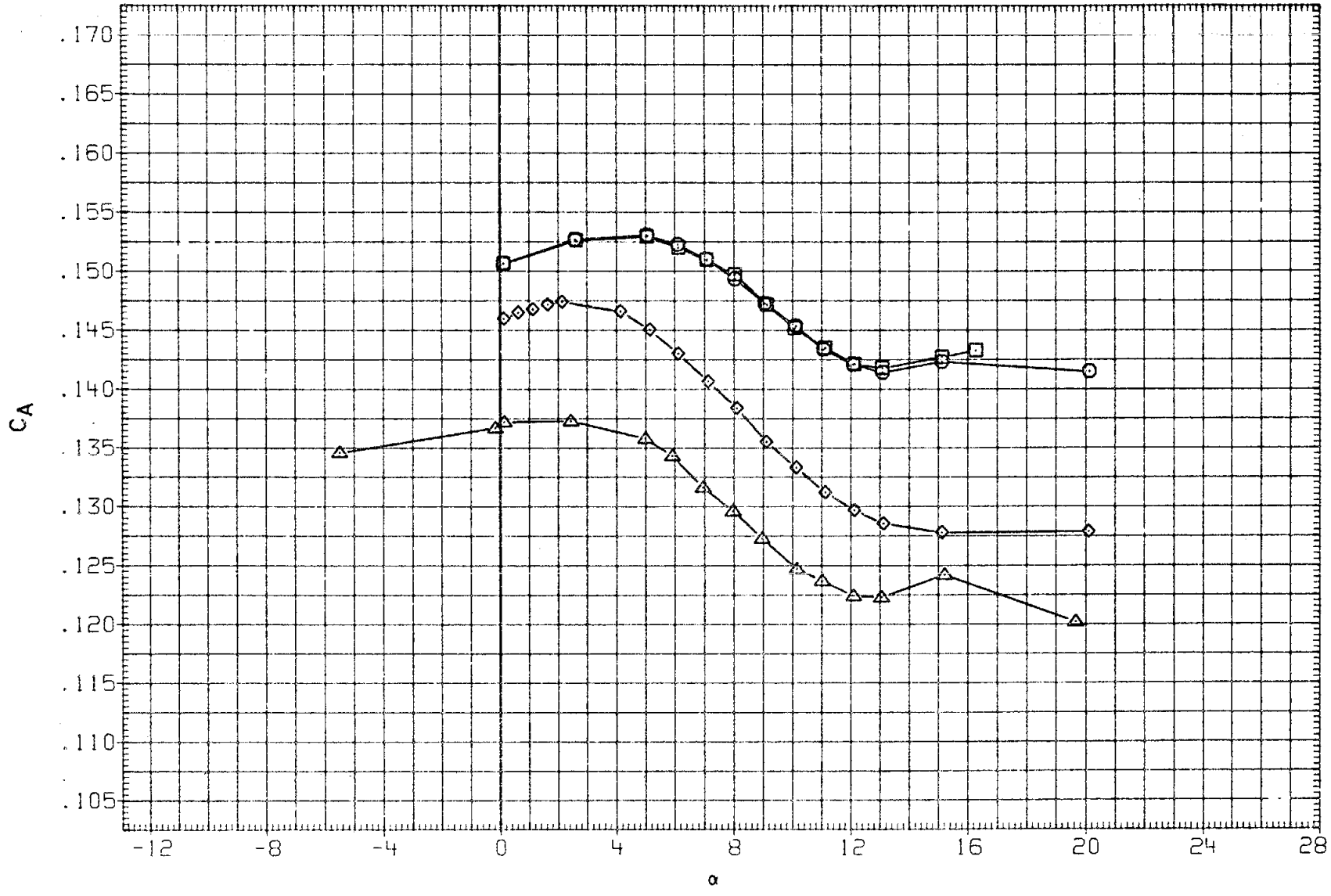

FIGURE 9. BASIC LONGITUDINAL

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 1:8-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

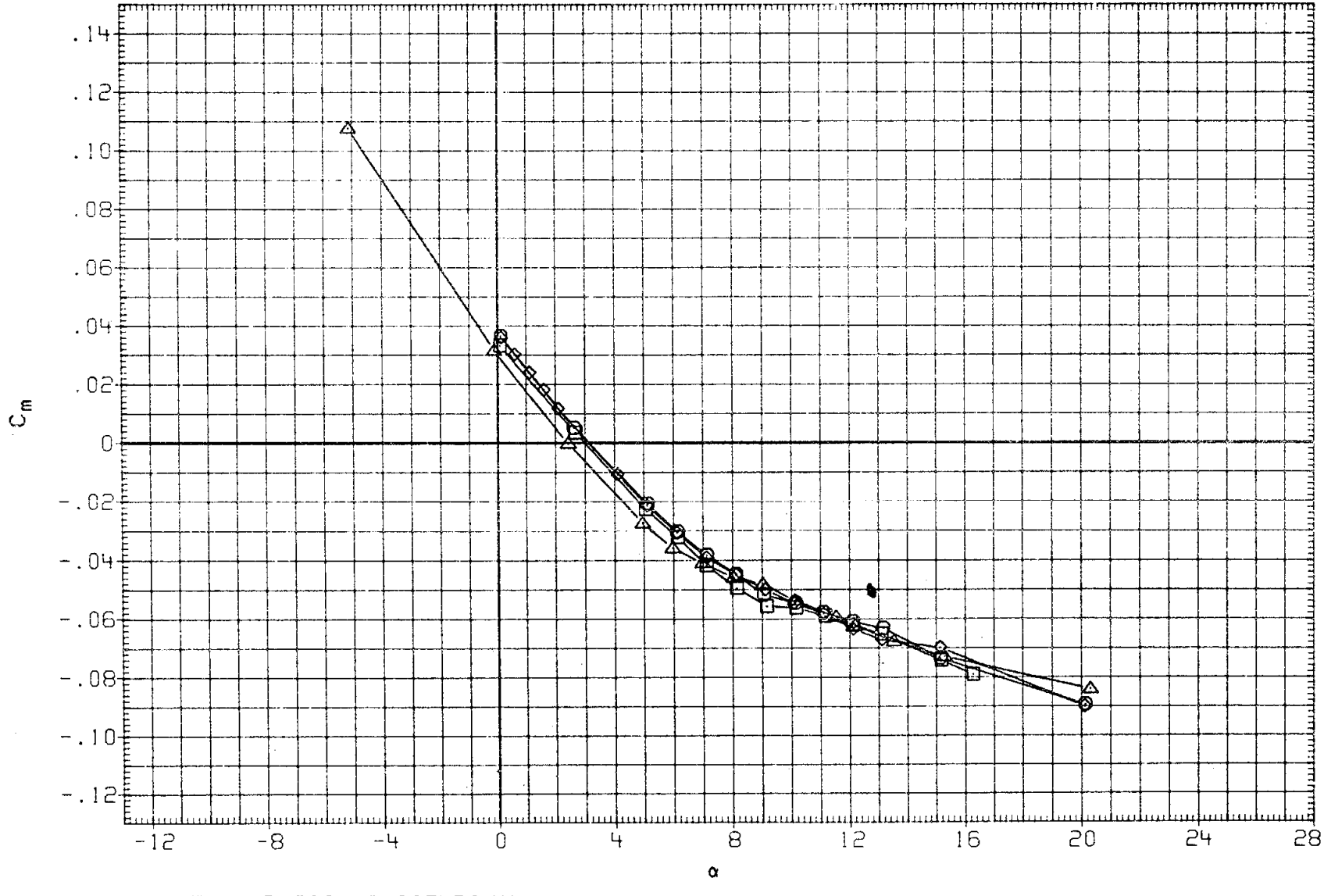

FIGURE 9. BASIC LONGITUDINAL

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 11B-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

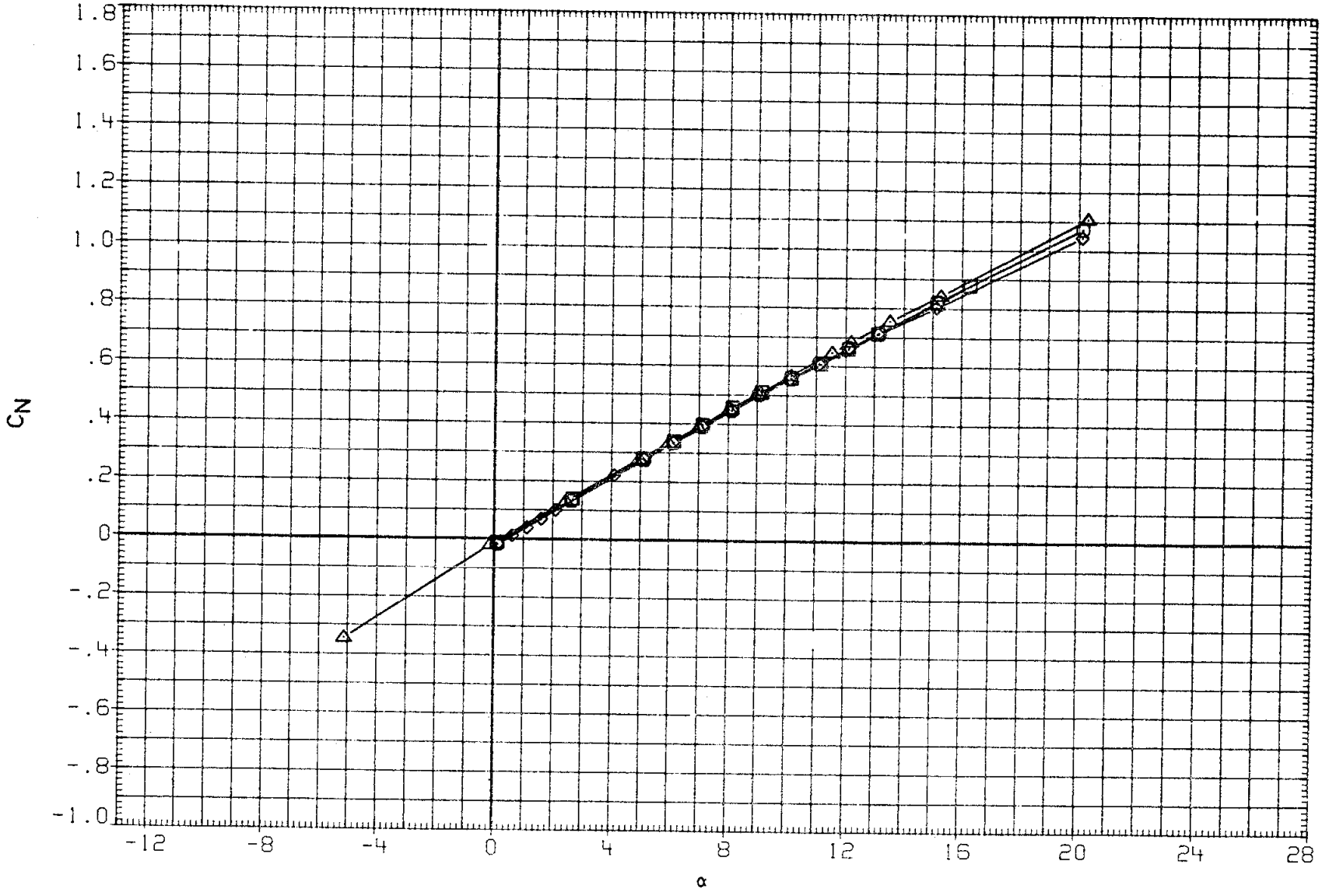

FIGURE 9. BASIC LONGITUDINAL

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

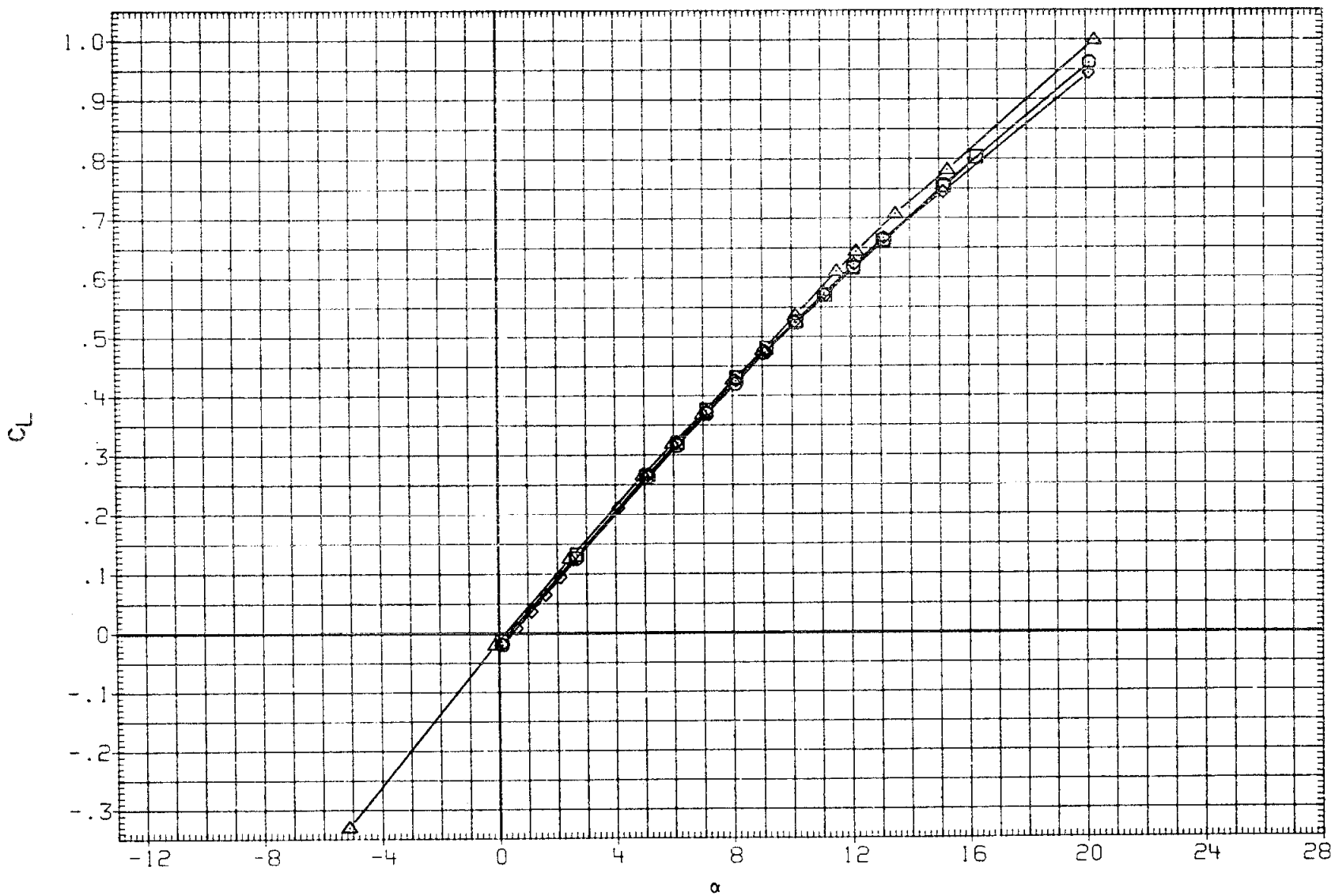

FIGURE 9. BASIC LONGITUDINAL

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

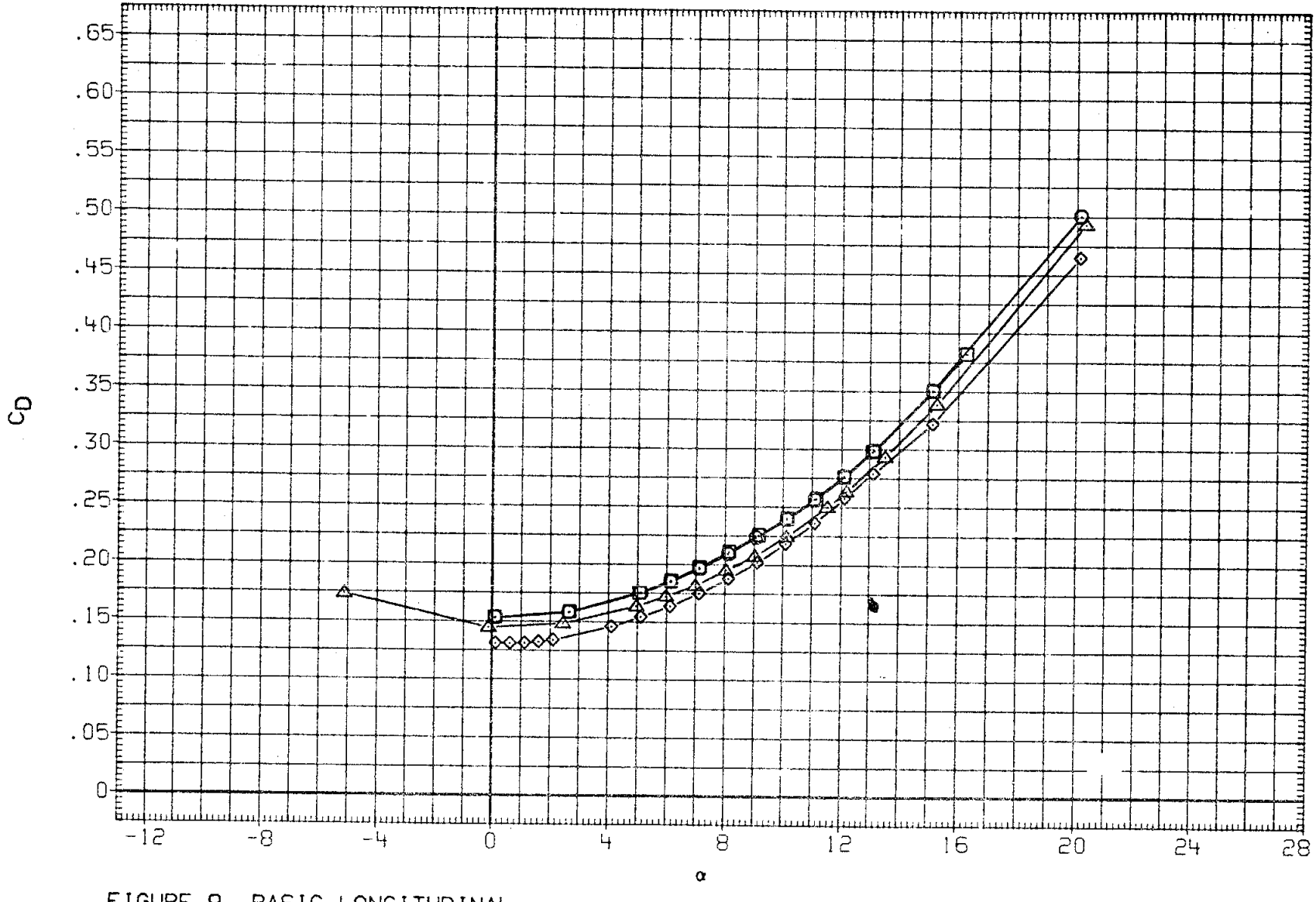

FIGURE 9. BASIC LONGITUDINAL

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

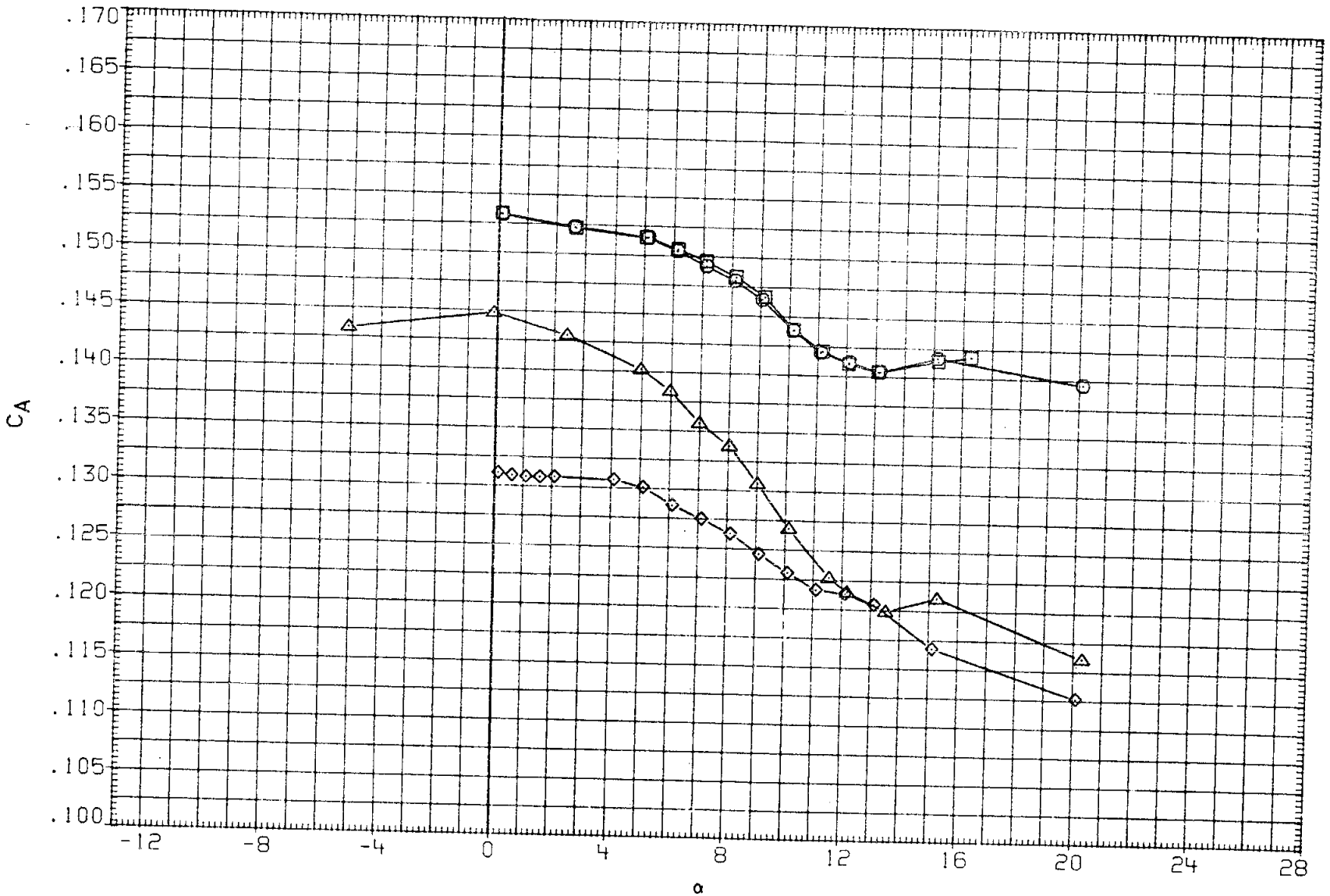

FIGURE 9. BASIC LONGITUDINAL

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

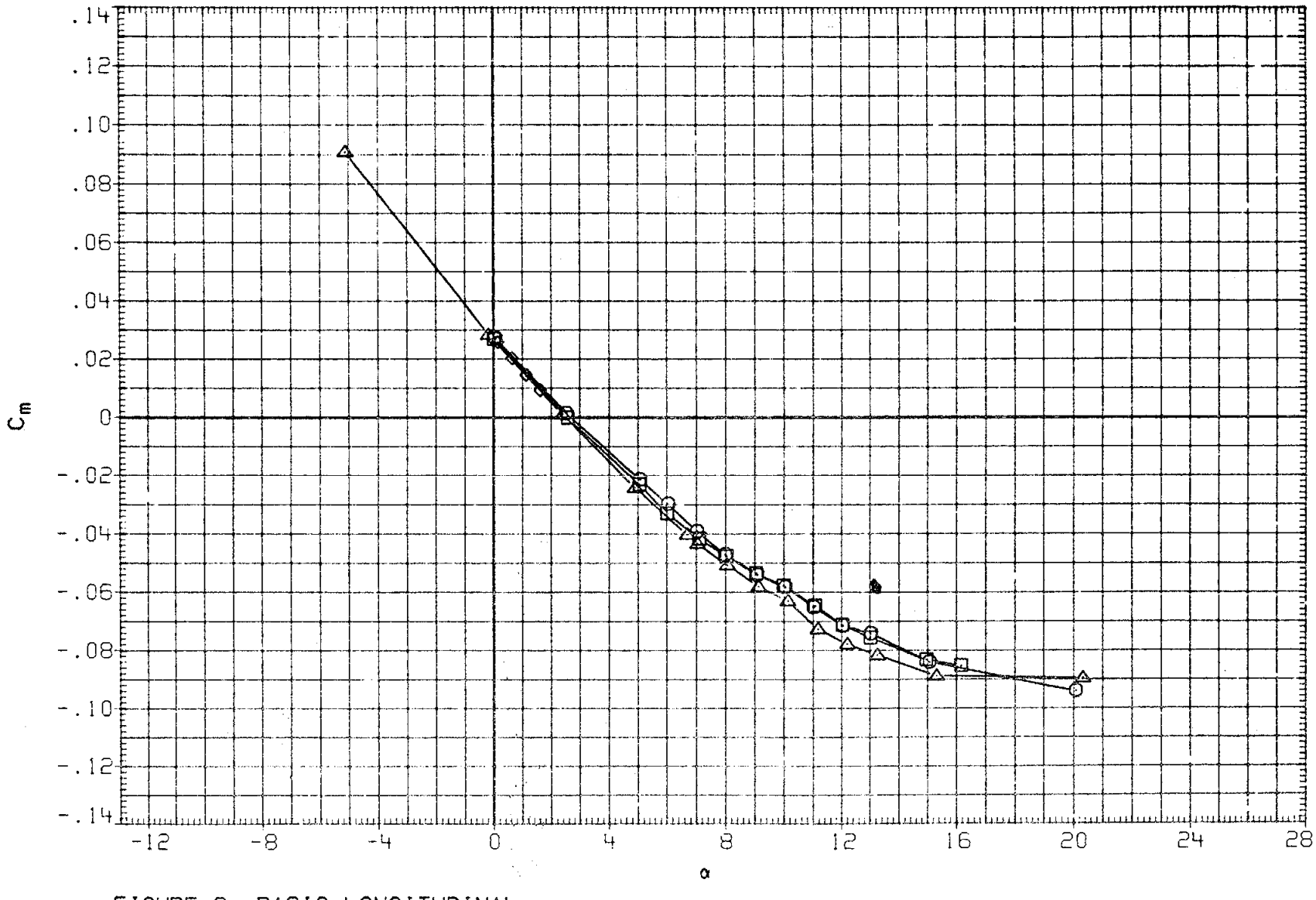

FIGURE 9. BASIC LONGITUDINAL

(I)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	◇	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	25.000	.000	

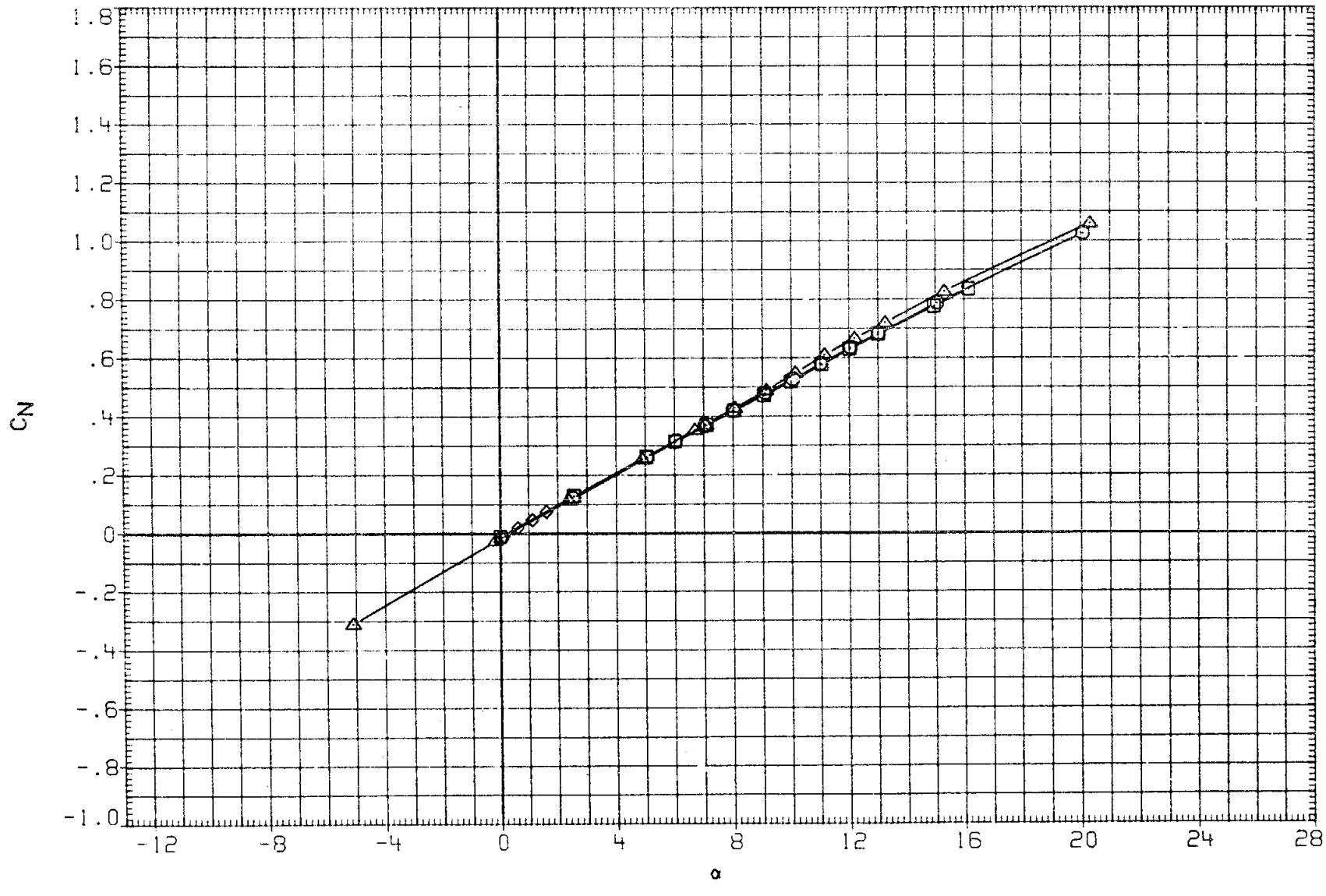

FIGURE 9. BASIC LONGITUDINAL

(I)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 11B-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

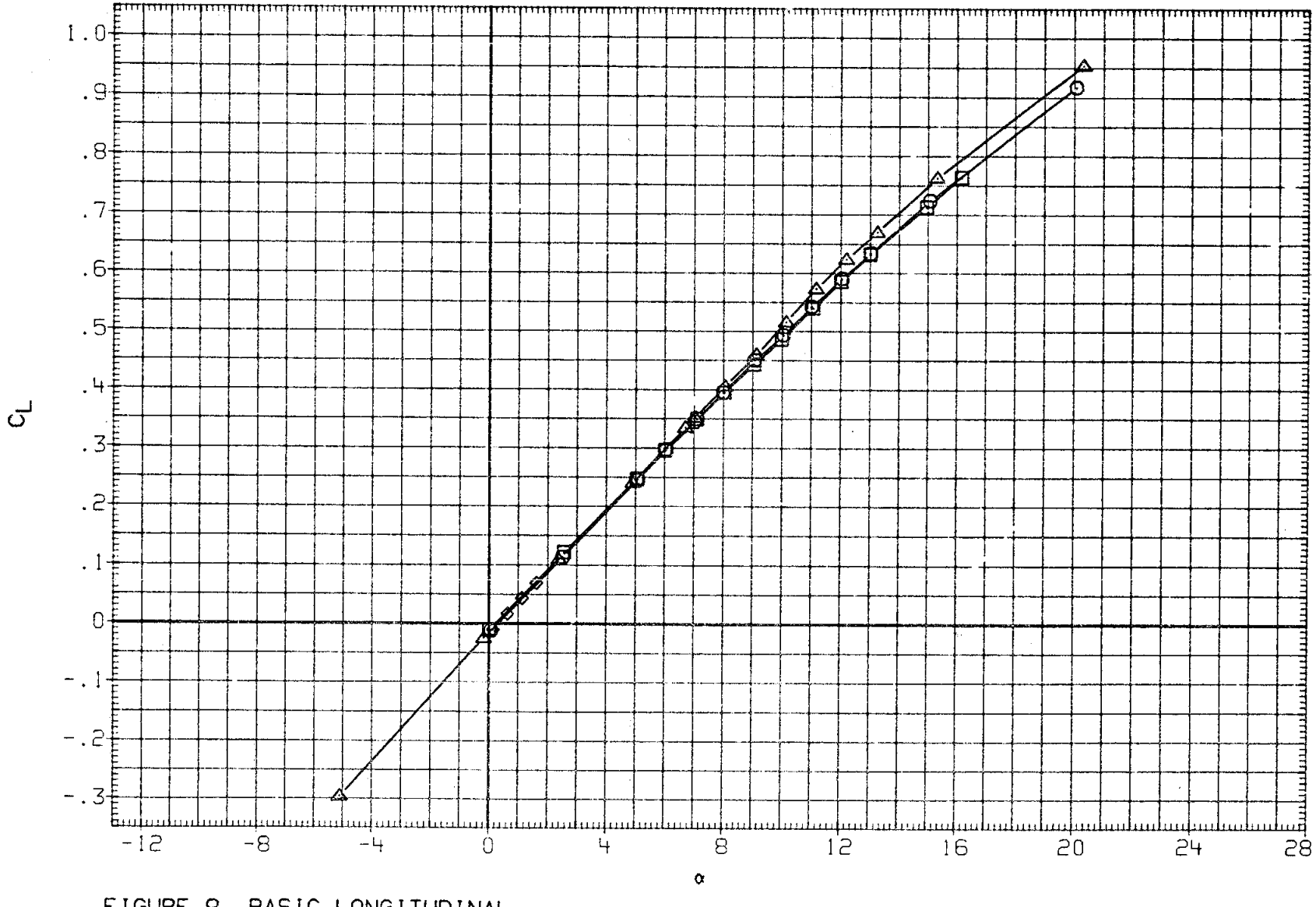

FIGURE 9. BASIC LONGITUDINAL

(I)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

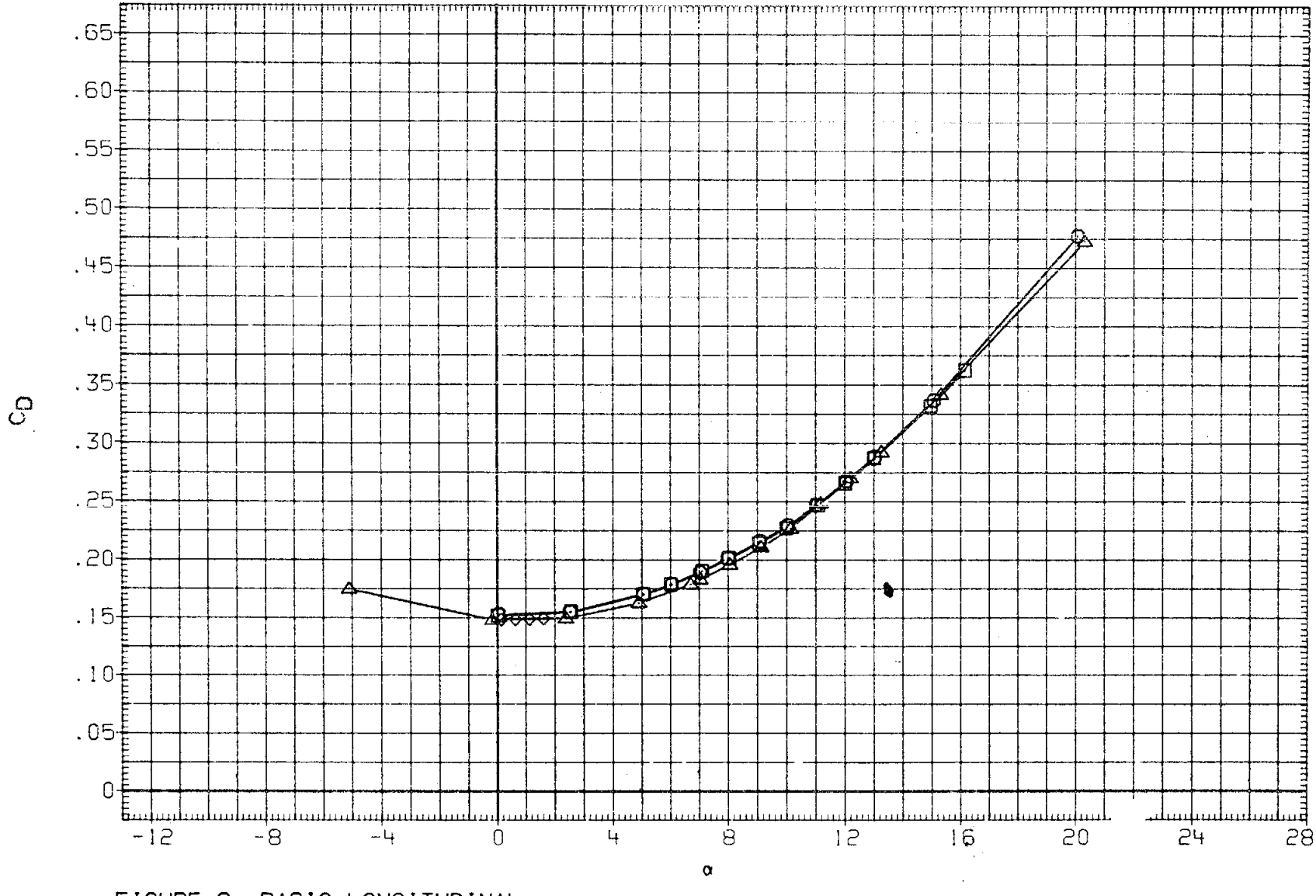

FIGURE 9. BASIC LONGITUDINAL

(I)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

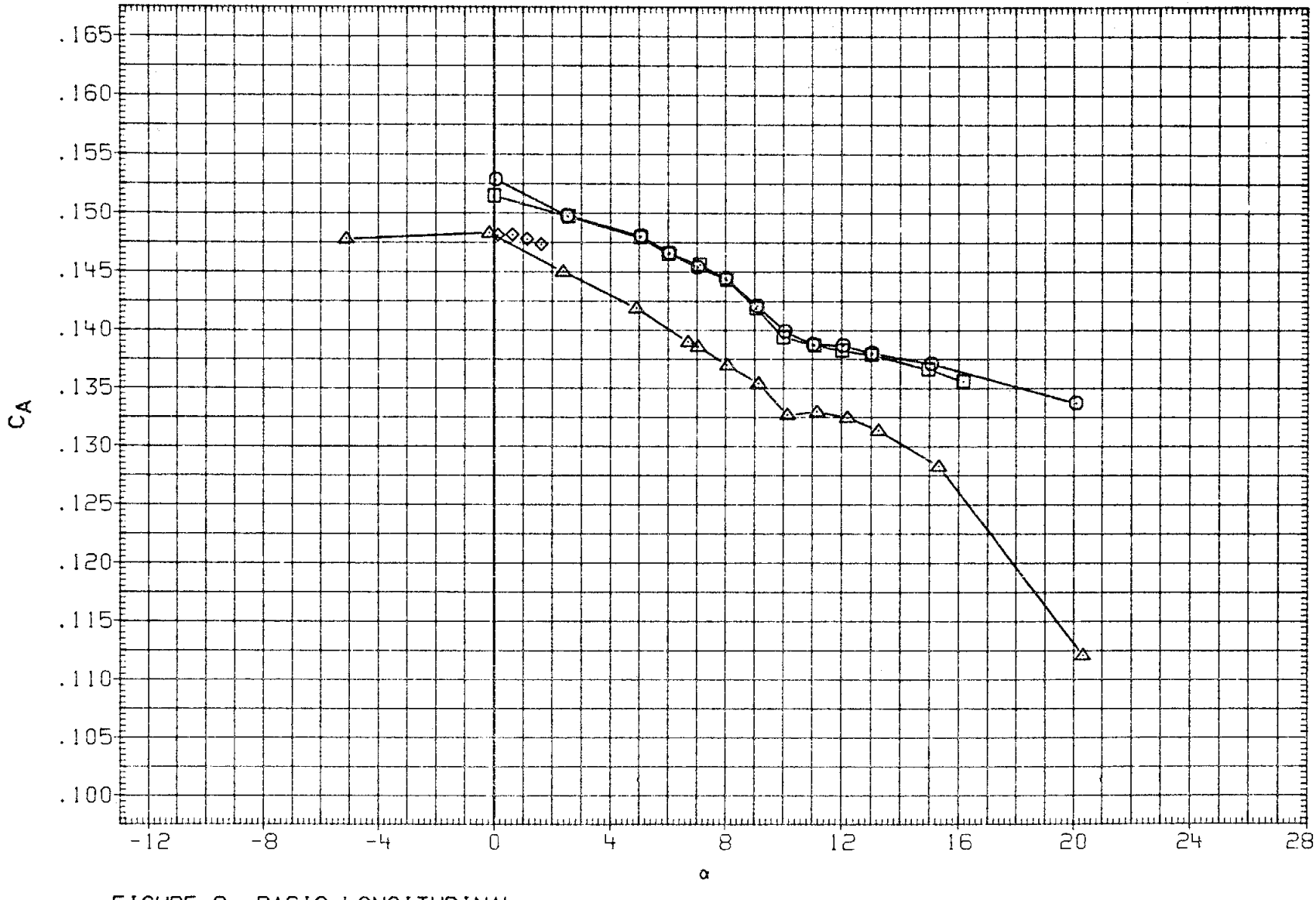

FIGURE 9. BASIC LONGITUDINAL

(I)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN017	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

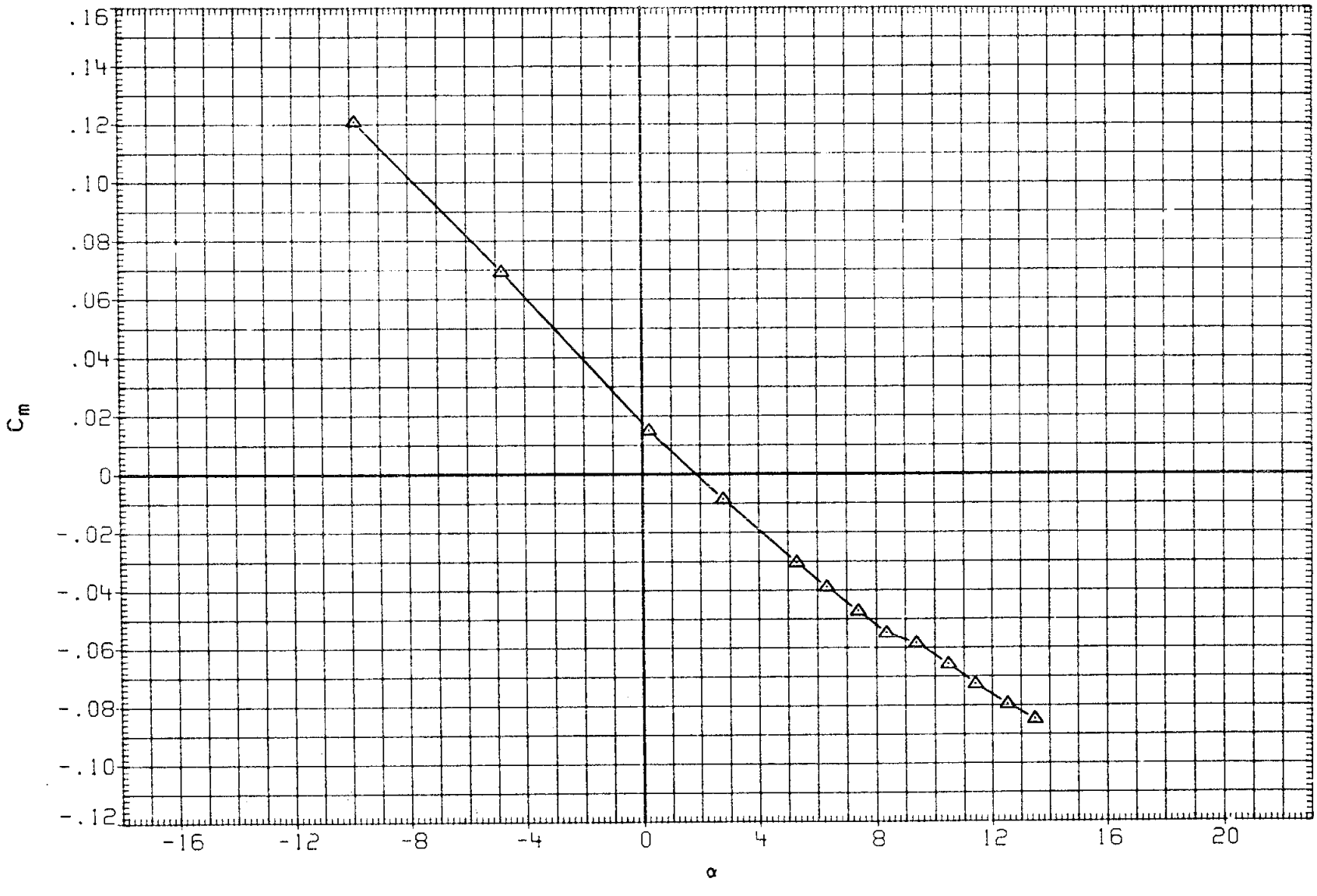

FIGURE 9. BASIC LONGITUDINAL

(J)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN017	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

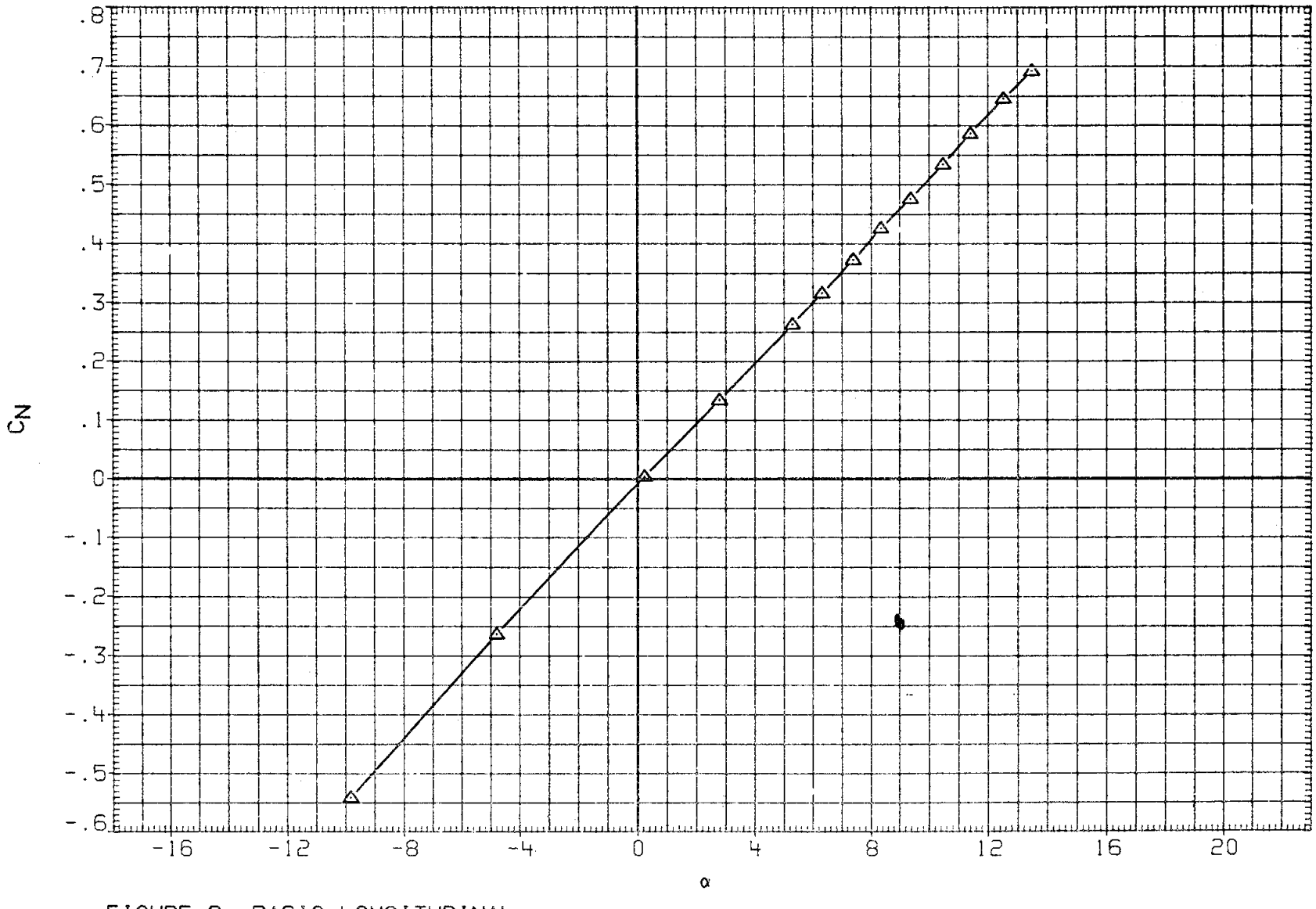

FIGURE 9. BASIC LONGITUDINAL

(J)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN017	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

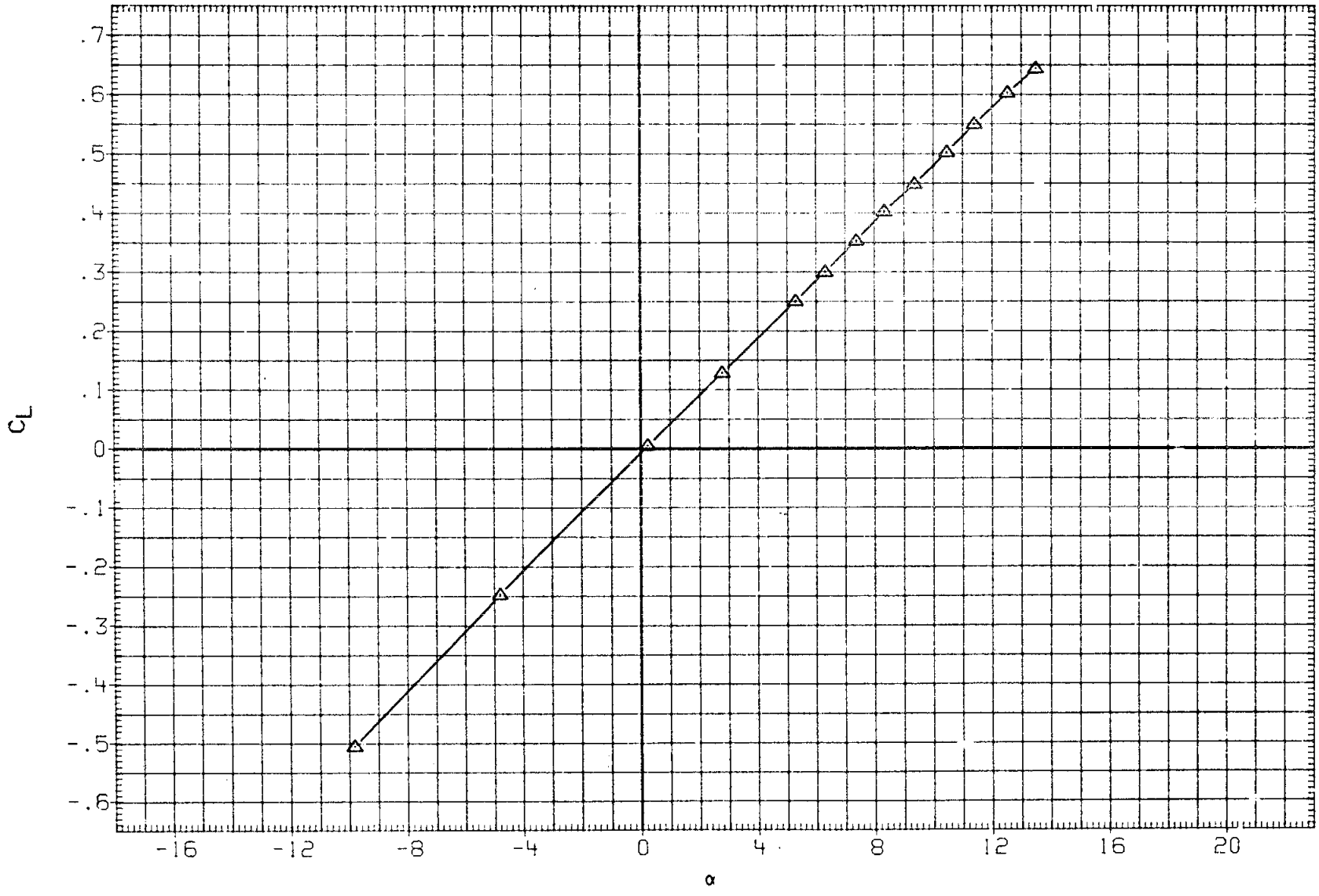

FIGURE 9. BASIC LONGITUDINAL

(J)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN017	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	25.000	.000	

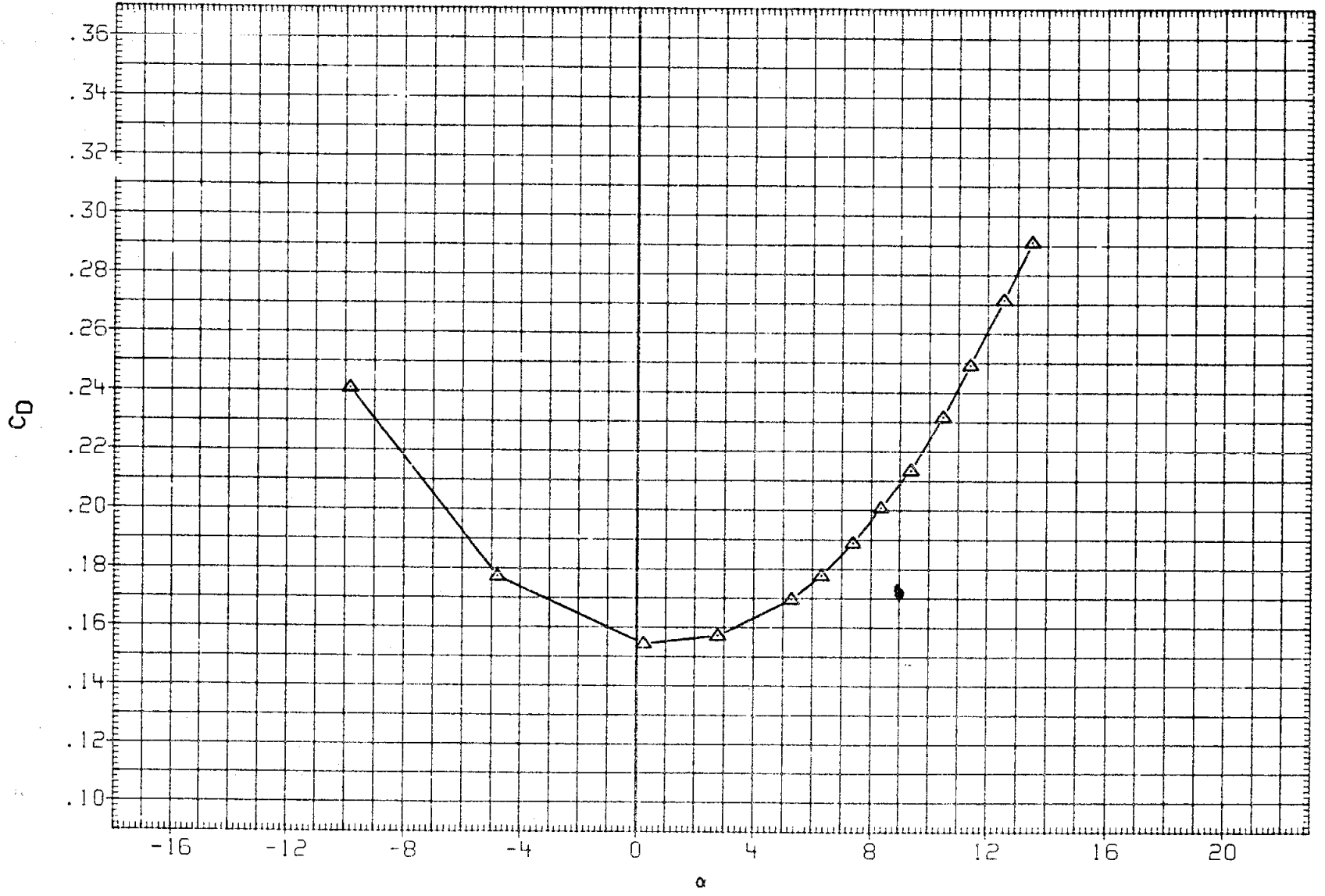

FIGURE 9. BASIC LONGITUDINAL

(J)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKJ001	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN017	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

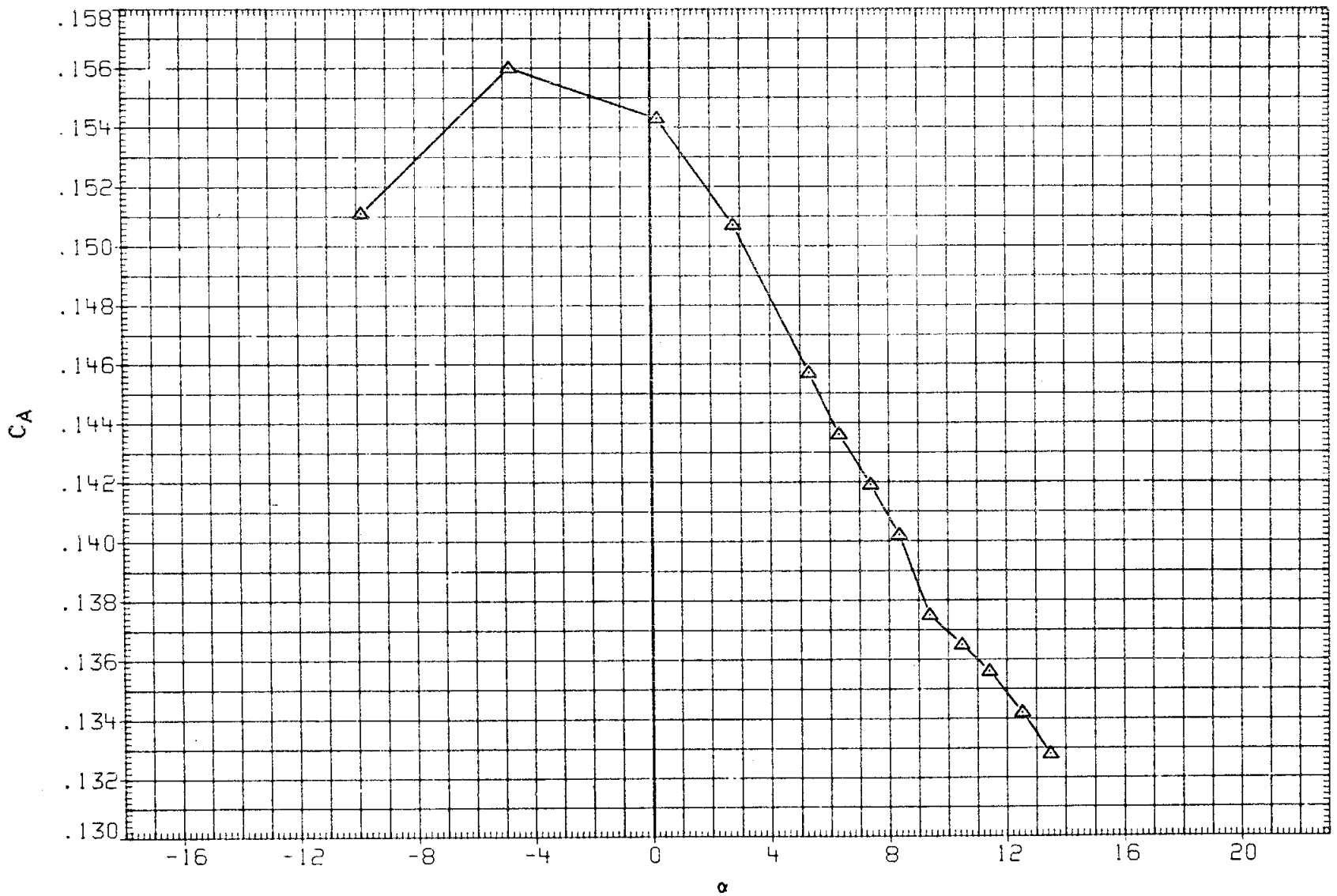

FIGURE 9. BASIC LONGITUDINAL

(J)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
R2F017	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0028	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	270.000
R2F002	△	AMES 118-1-11 OA145A 01(PHI=90)	.000	.000	.000	.000	25.000	.000	

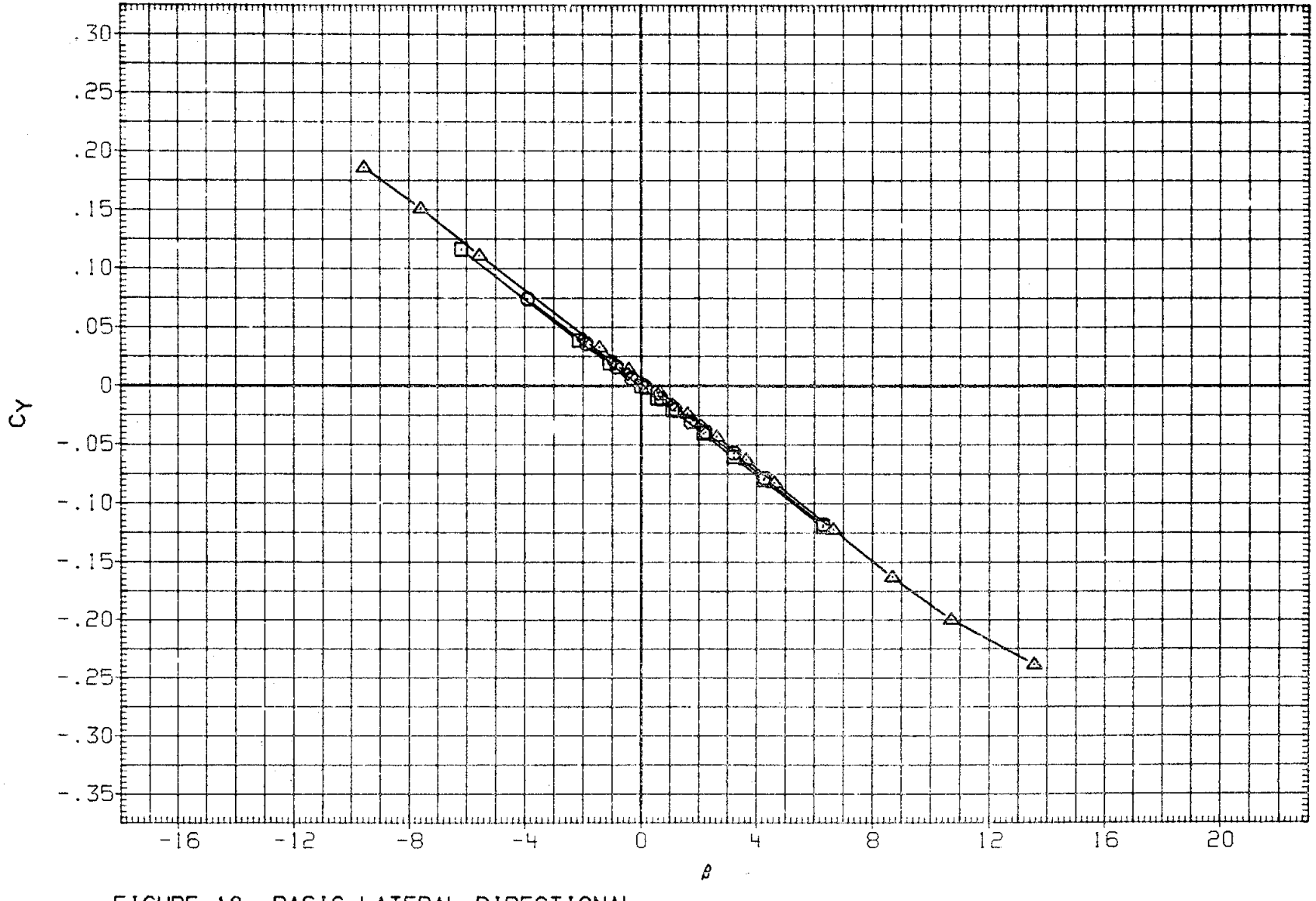

FIGURE 10. BASIC LATERAL-DIRECTIONAL

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
R2F017	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0028	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	270.000
R2F002	△	AMES 118-1-11 OA145A 01(PHI=90)	.000	.000	.000	.000	25.000	.000	

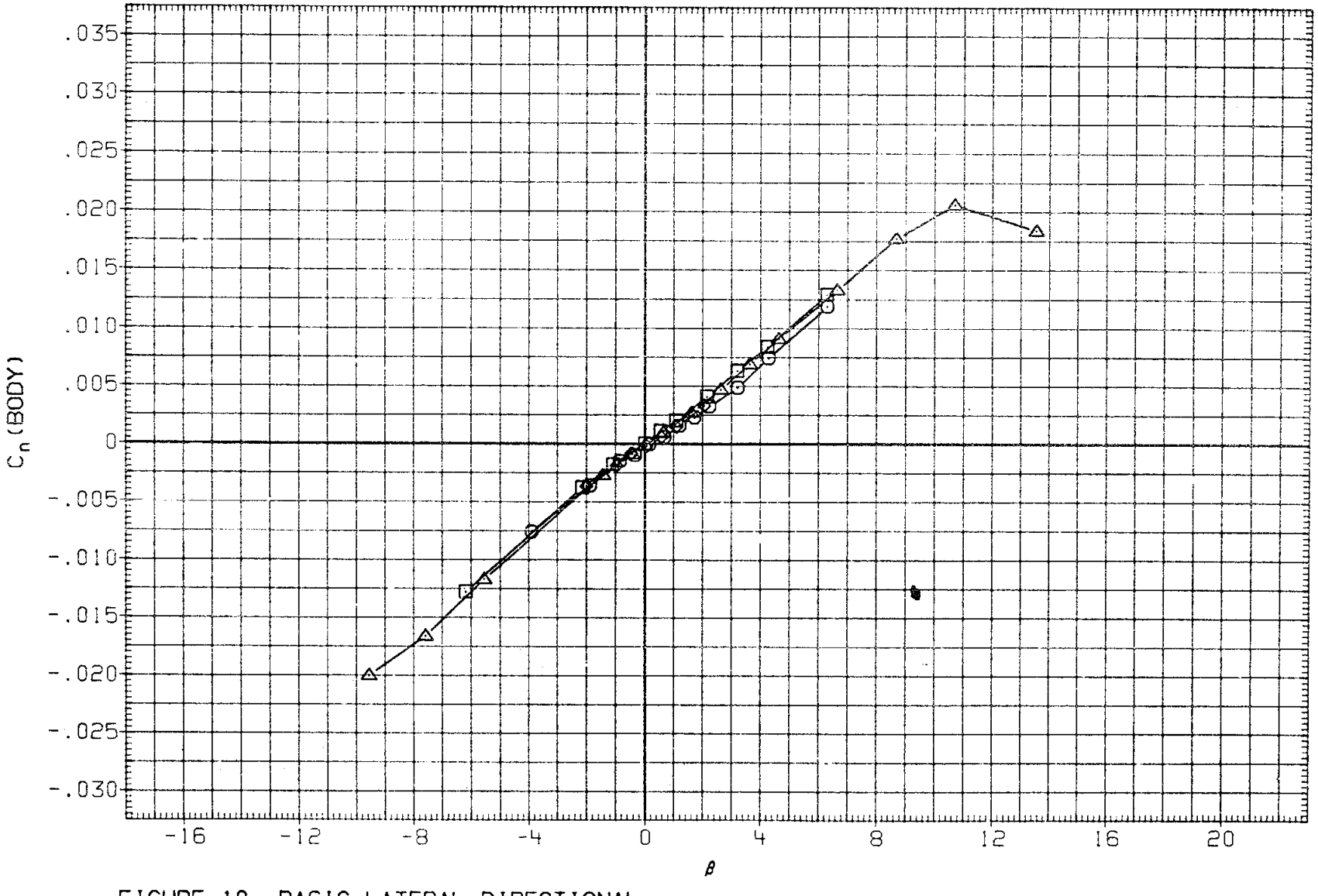

FIGURE 10. BASIC LATERAL-DIRECTIONAL

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
R2F017	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0028	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	270.000
R2F002	△	AMES 118-1-11 OA145A 01(PHI=90)	.000	.000	.000	.000	25.000	.000	

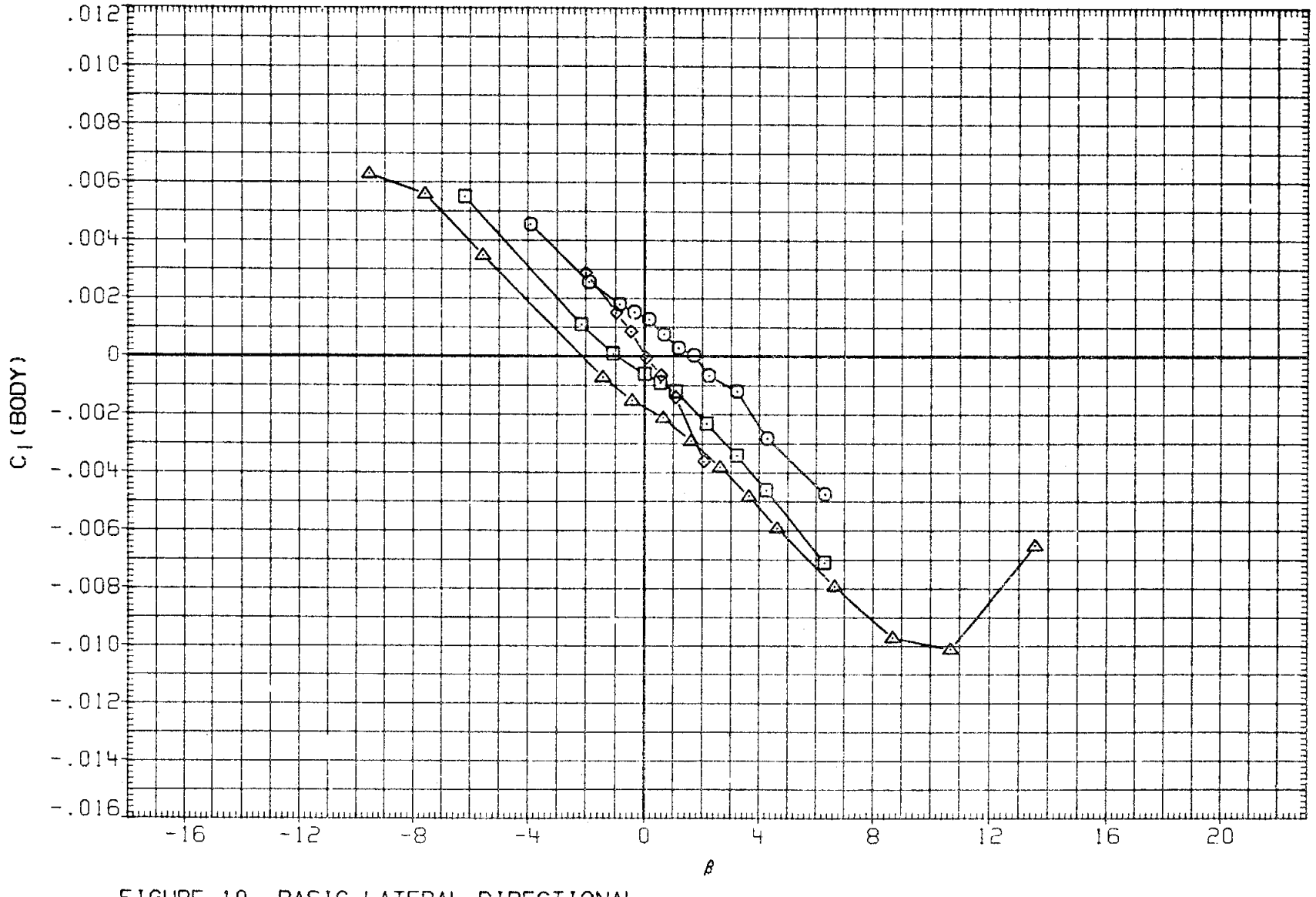

FIGURE 10. BASIC LATERAL-DIRECTIONAL

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
R2F017	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0028	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	270.000
R2F002	△	AMES 118-1-11 OA145A 01(PHI=90)	.000	.000	.000	.000	25.000	.000	

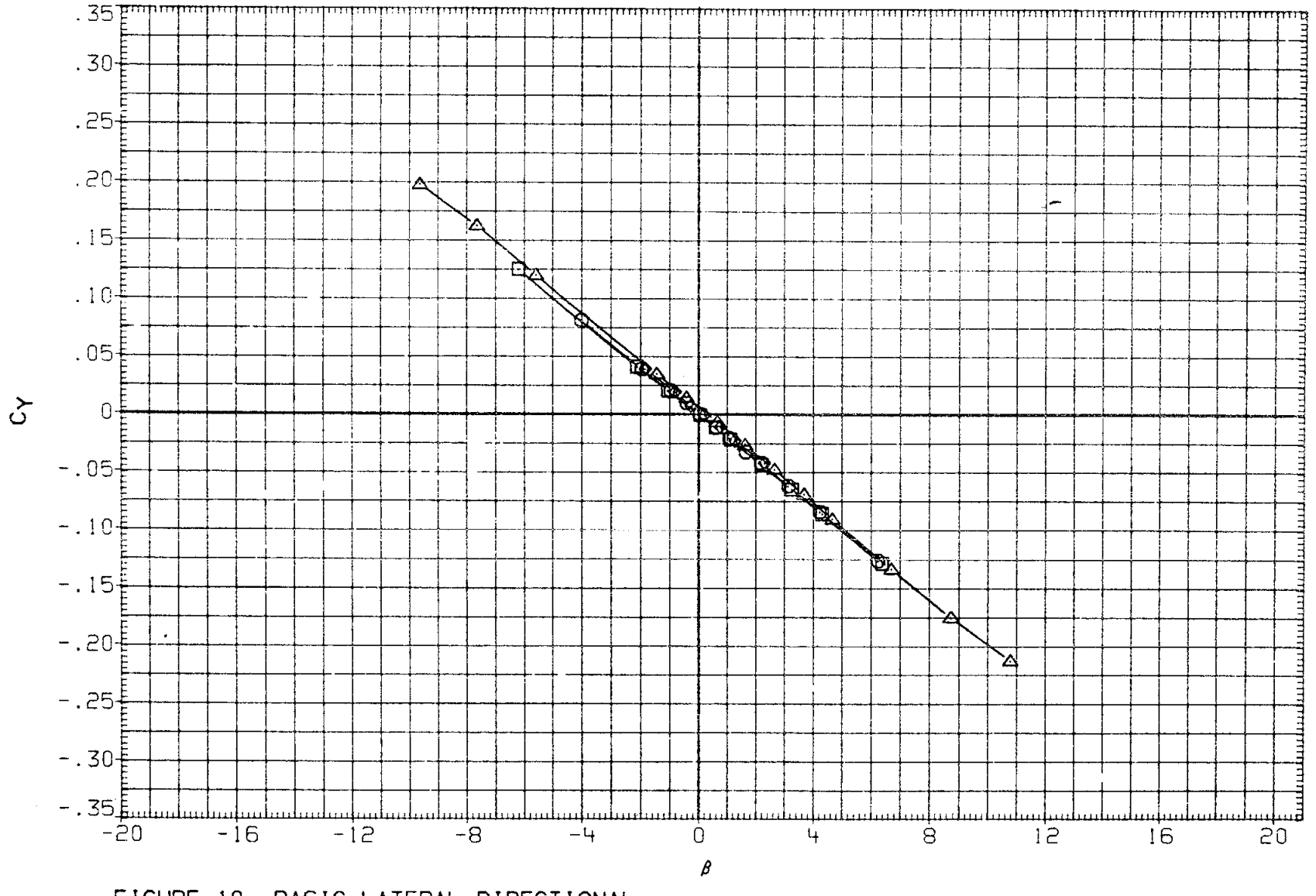

FIGURE 10. BASIC LATERAL-DIRECTIONAL

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
R2F017	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0028	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	270.000
R2F002	△	AMES 118-1-11 OA145A 01(PHI=90)	.000	.000	.000	.000	25.000	.000	

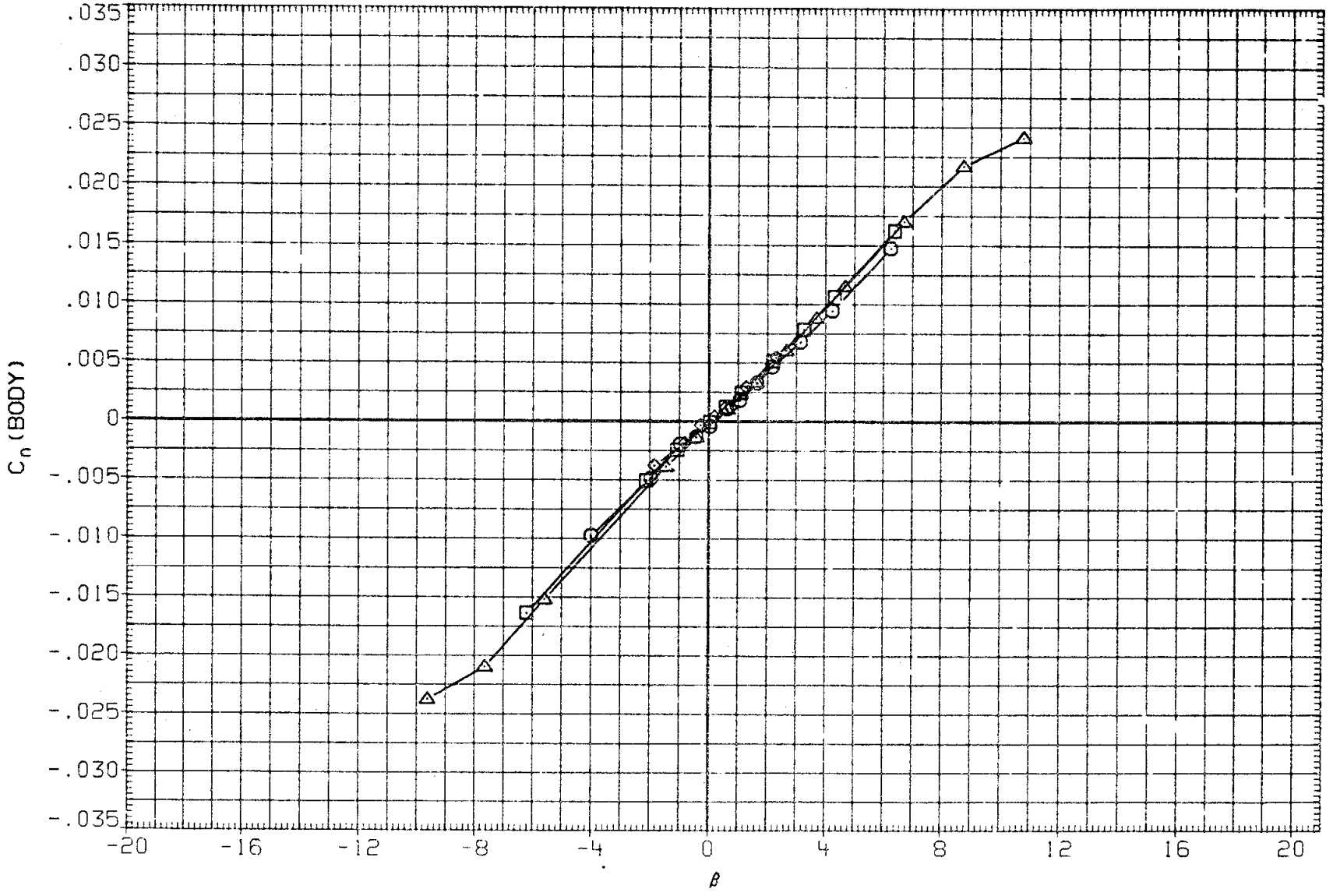

FIGURE 10. BASIC LATERAL-DIRECTIONAL

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
R2F017	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0028	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	270.000
R2F002	△	AMES 118-1-11 OA145A 01(PHI=90)	.000	.000	.000	.000	25.000	.000	

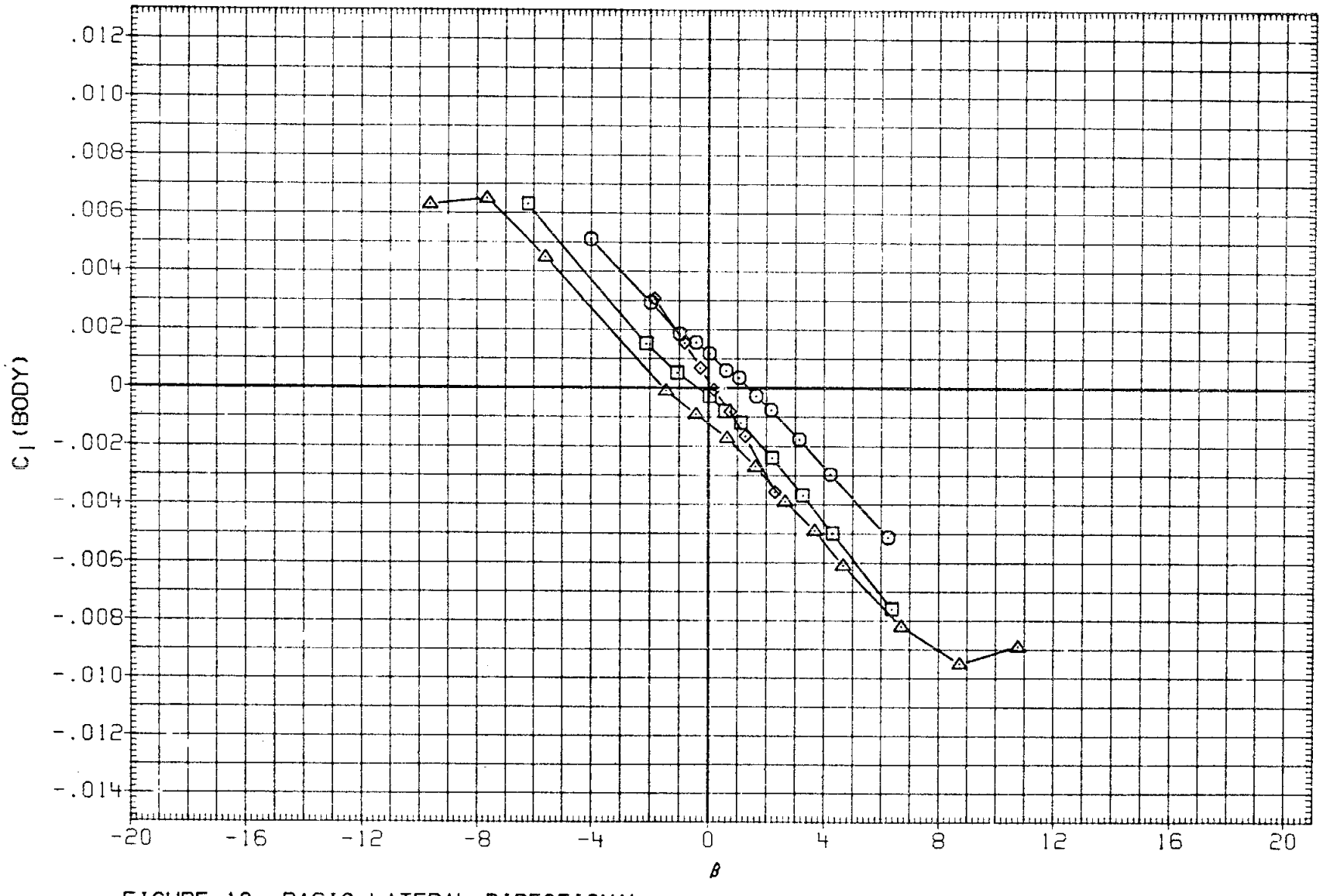

FIGURE 10. BASIC LATERAL-DIRECTIONAL

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
R2F017	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0028	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	270.000
R2F002	△	AMES 118-1-11 OA145A 01(PHI=90)	.000	.000	.000	.000	25.000	.000	

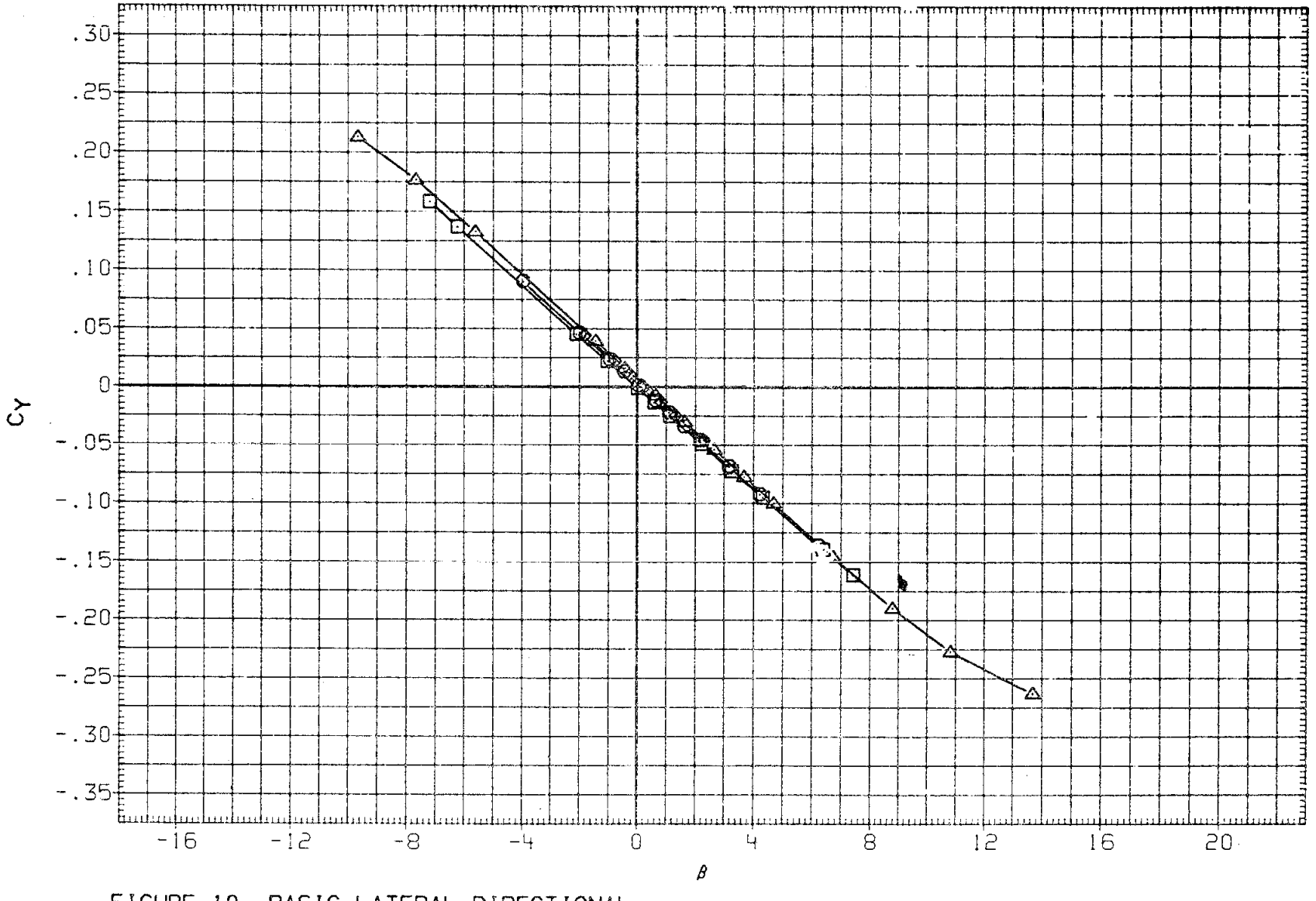

FIGURE 10. BASIC LATERAL-DIRECTIONAL

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
R2F017	□	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	25.000	.000	
RK0028	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	270.000
R2F002	△	AMES 118-1-11 0A145A 01(PHI=90)	.000	.000	.000	.000	25.000	.000	

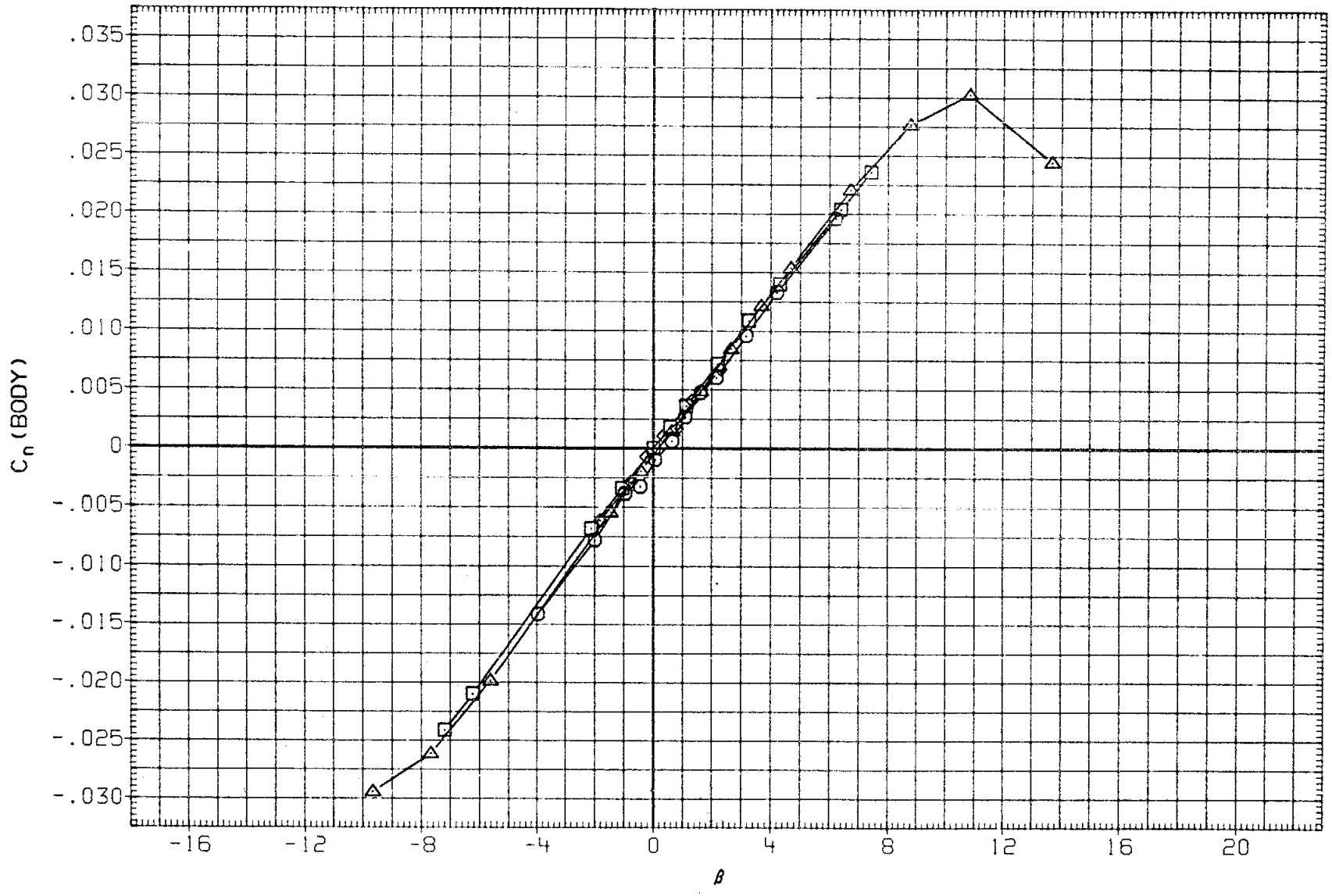

FIGURE 10. BASIC LATERAL-DIRECTIONAL

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
R2F017	□	AMES 11B-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0028	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	270.000
R2F002	△	AMES 11B-1-11 OA145A 01(PHI=90)	.000	.000	.000	.000	25.000	.000	

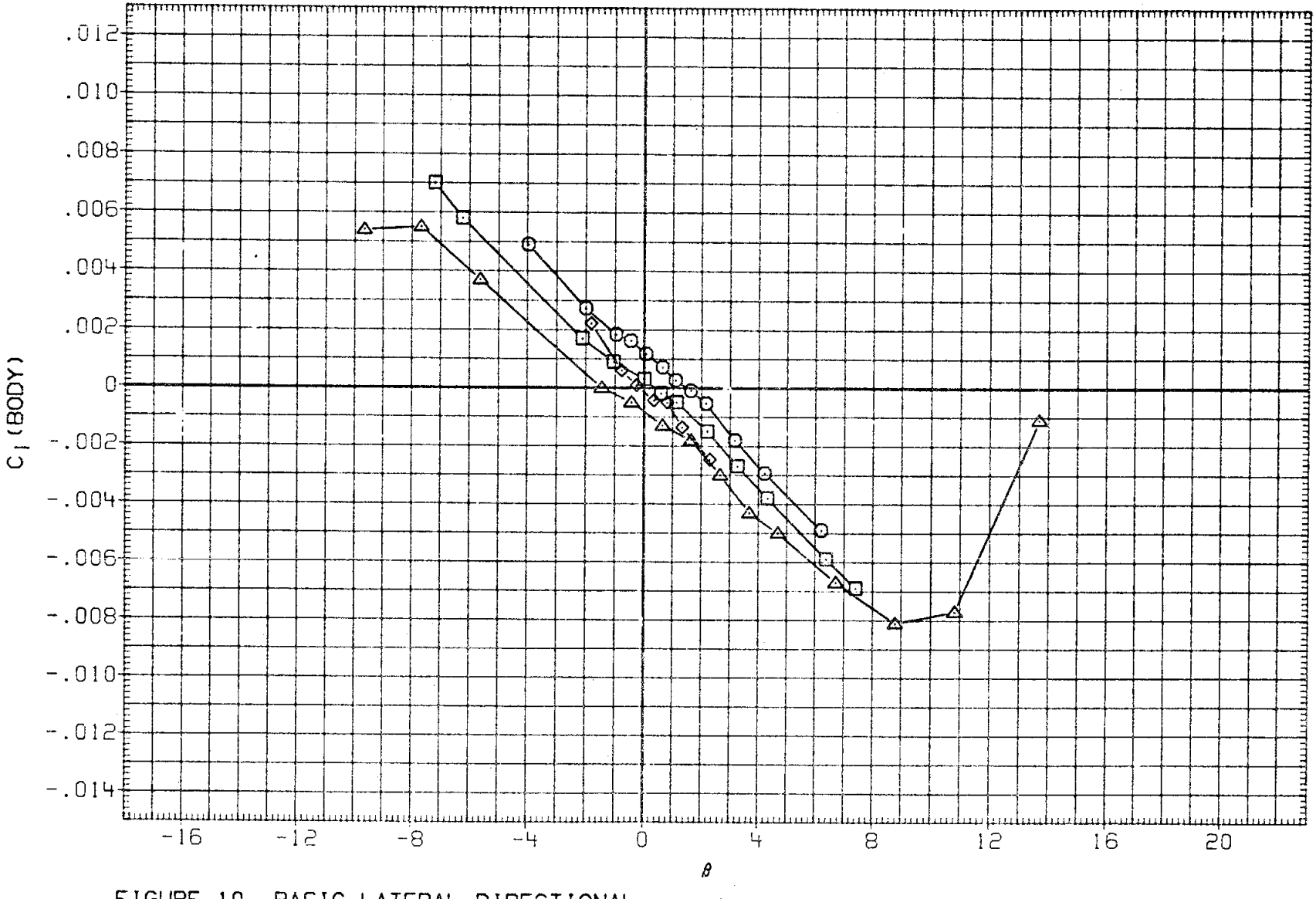

FIGURE 10. BASIC LATERAL-DIRECTIONAL

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
R2F017	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0028	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	270.000
R2F002	△	AMES 118-1-11 OA145A 01(PHI=90)	.000	.000	.000	.000	25.000	.000	

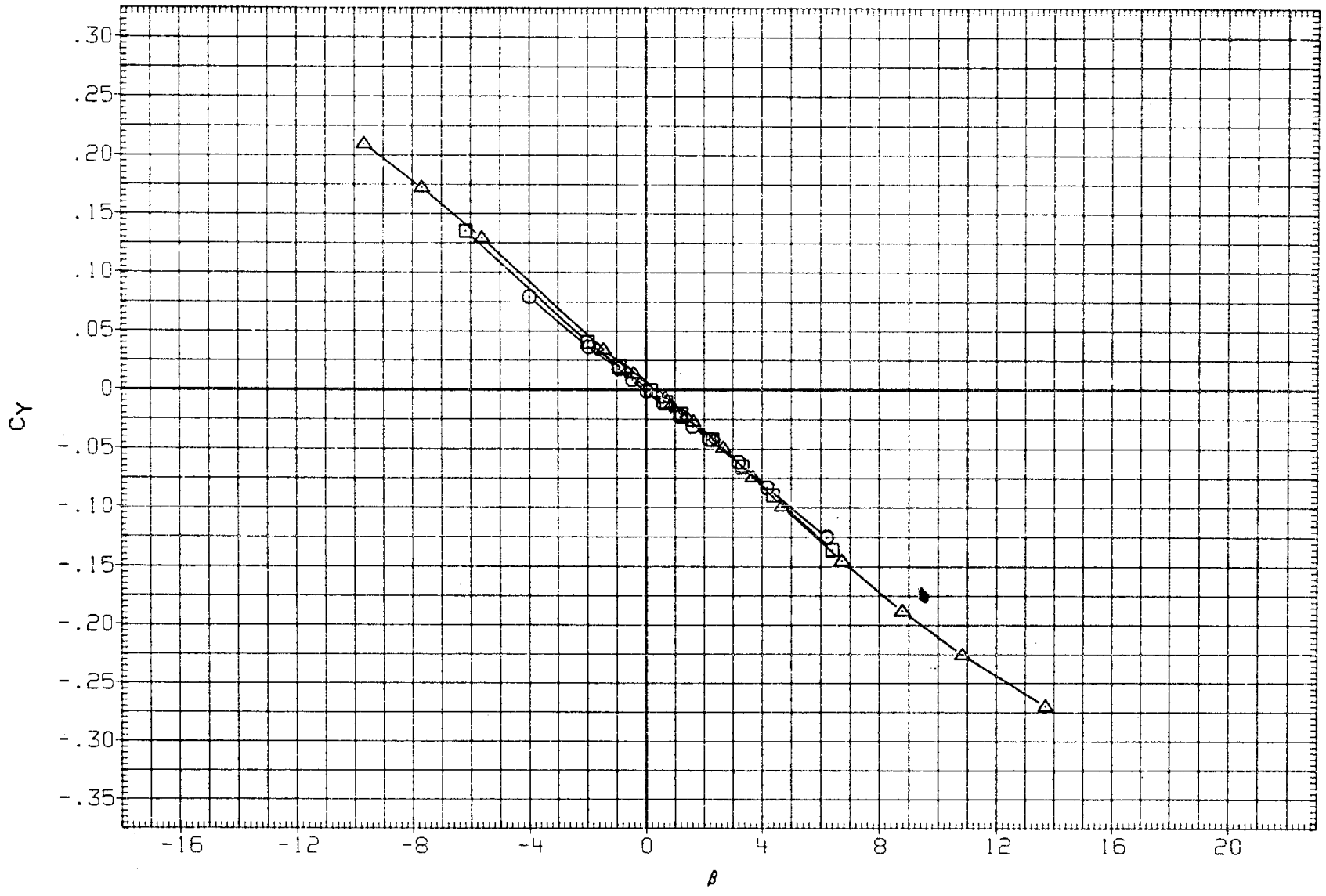

FIGURE 10. BASIC LATERAL-DIRECTIONAL

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
R2F017	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0028	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25 500	-.030	270.000
R2F002	△	AMES 118-1-11 OA145A 01(PHI=90)	.000	.000	.000	.000	25.000	.000	

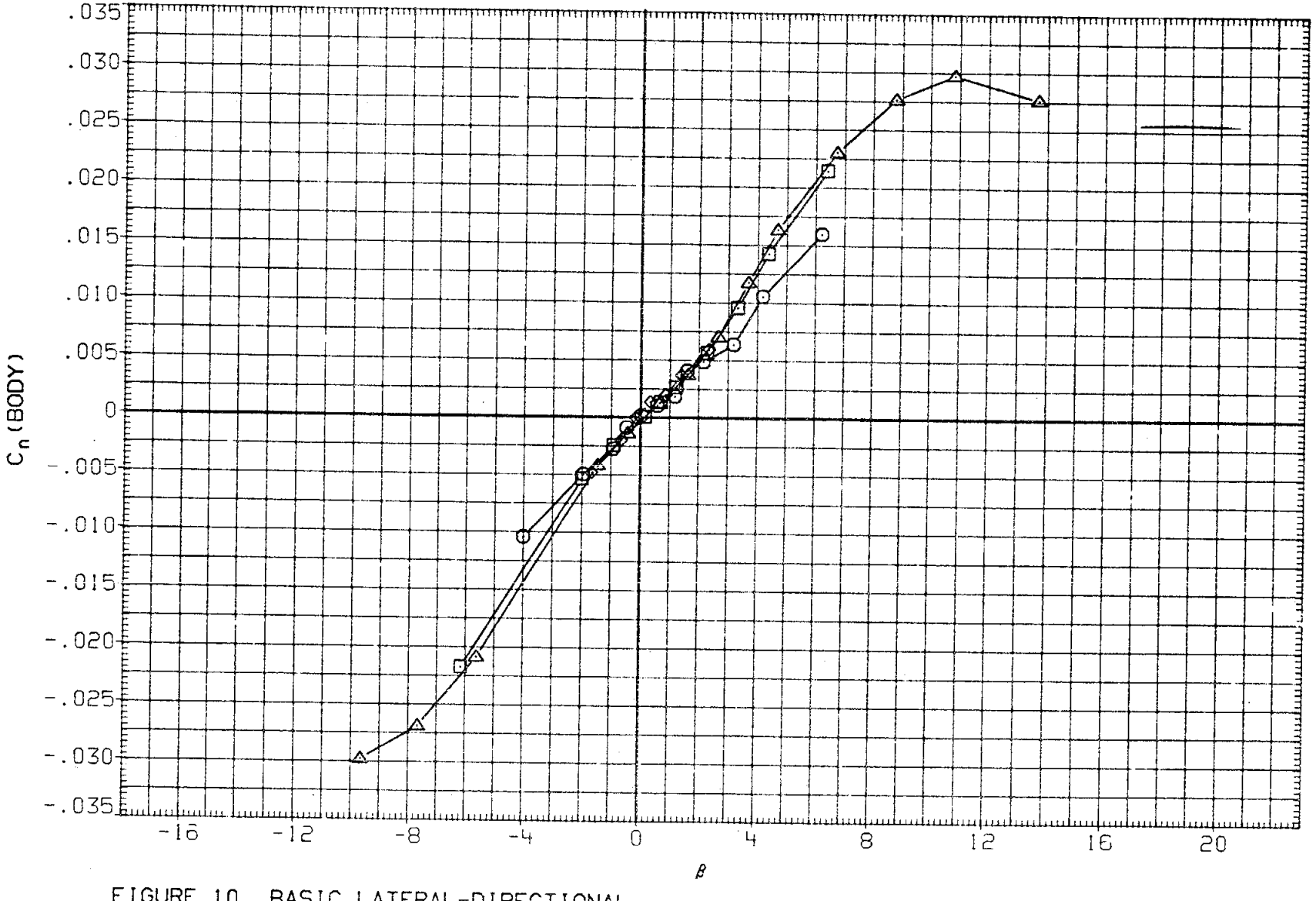

FIGURE 10. BASIC LATERAL-DIRECTIONAL

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
R2F017	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0028	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	270.000
R2F002	△	AMES 118-1-11 OA145A 01(PHI=90)	.000	.000	.000	.000	25.000	.000	

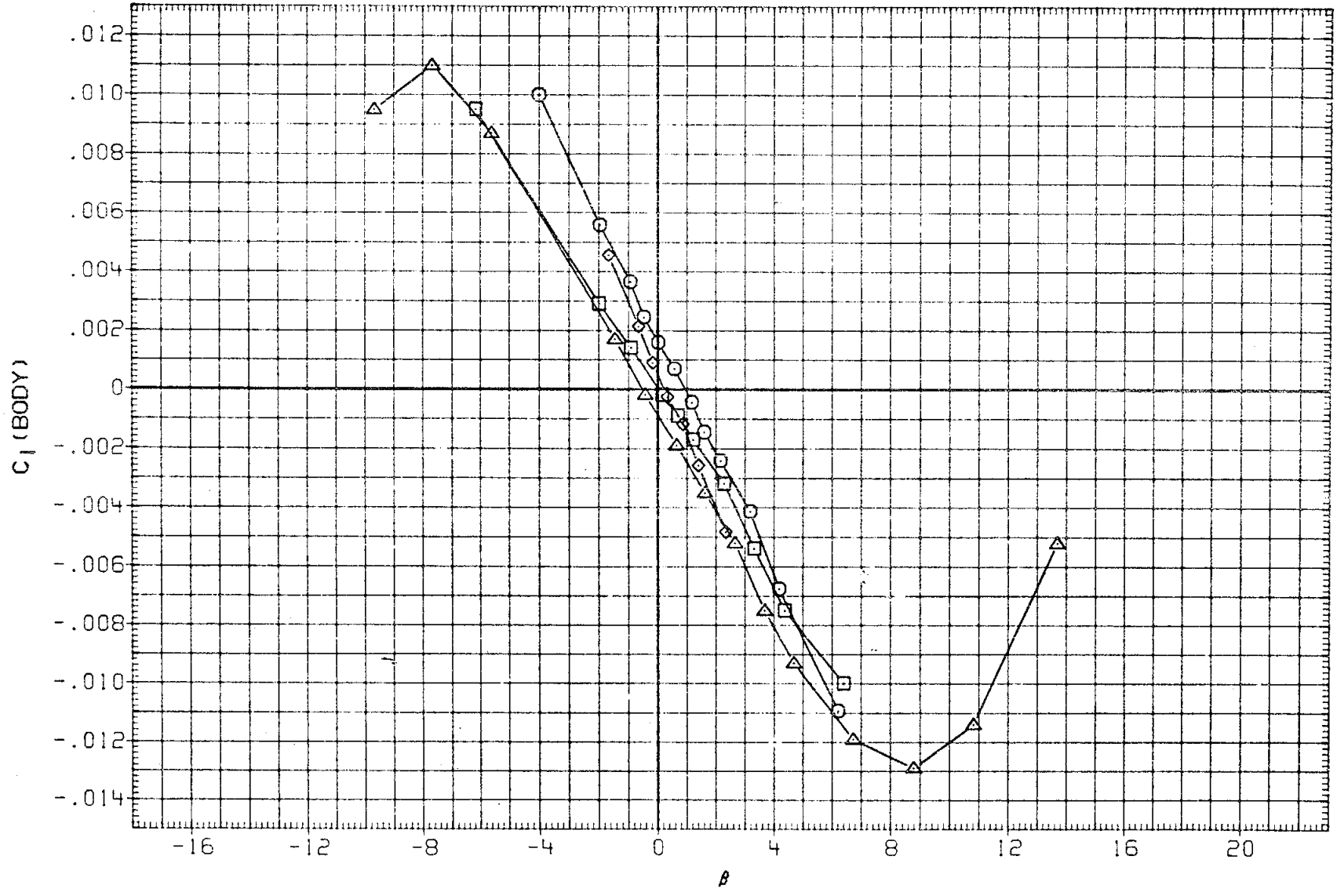

FIGURE 10. BASIC LATERAL-DIRECTIONAL

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
R2F017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RK0028	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	270.000
R2F002	△	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	

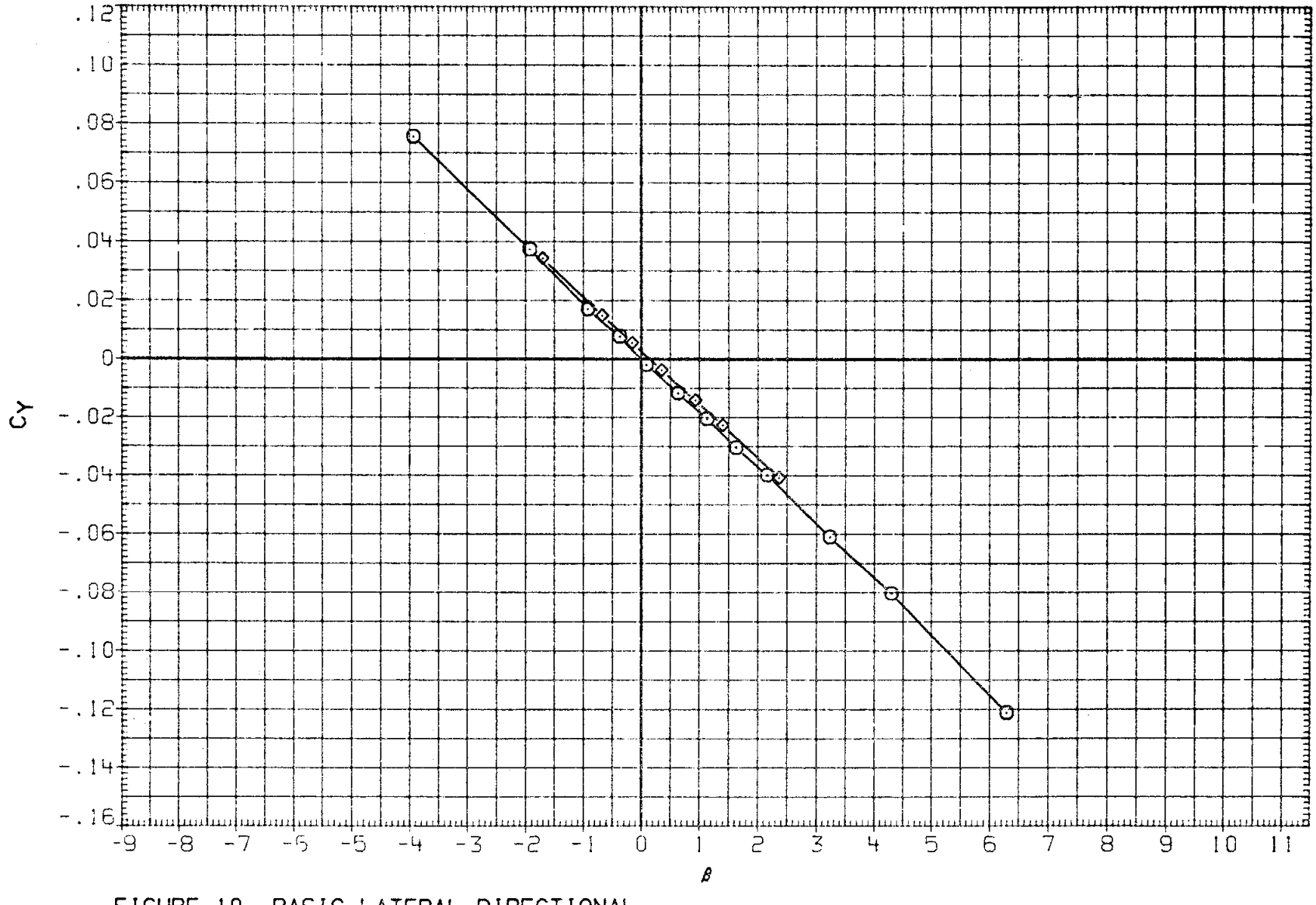

FIGURE 10. BASIC LATERAL-DIRECTIONAL

(E)MACH = .97

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
R2F017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RK0028	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	270.000
R2F002	△	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	

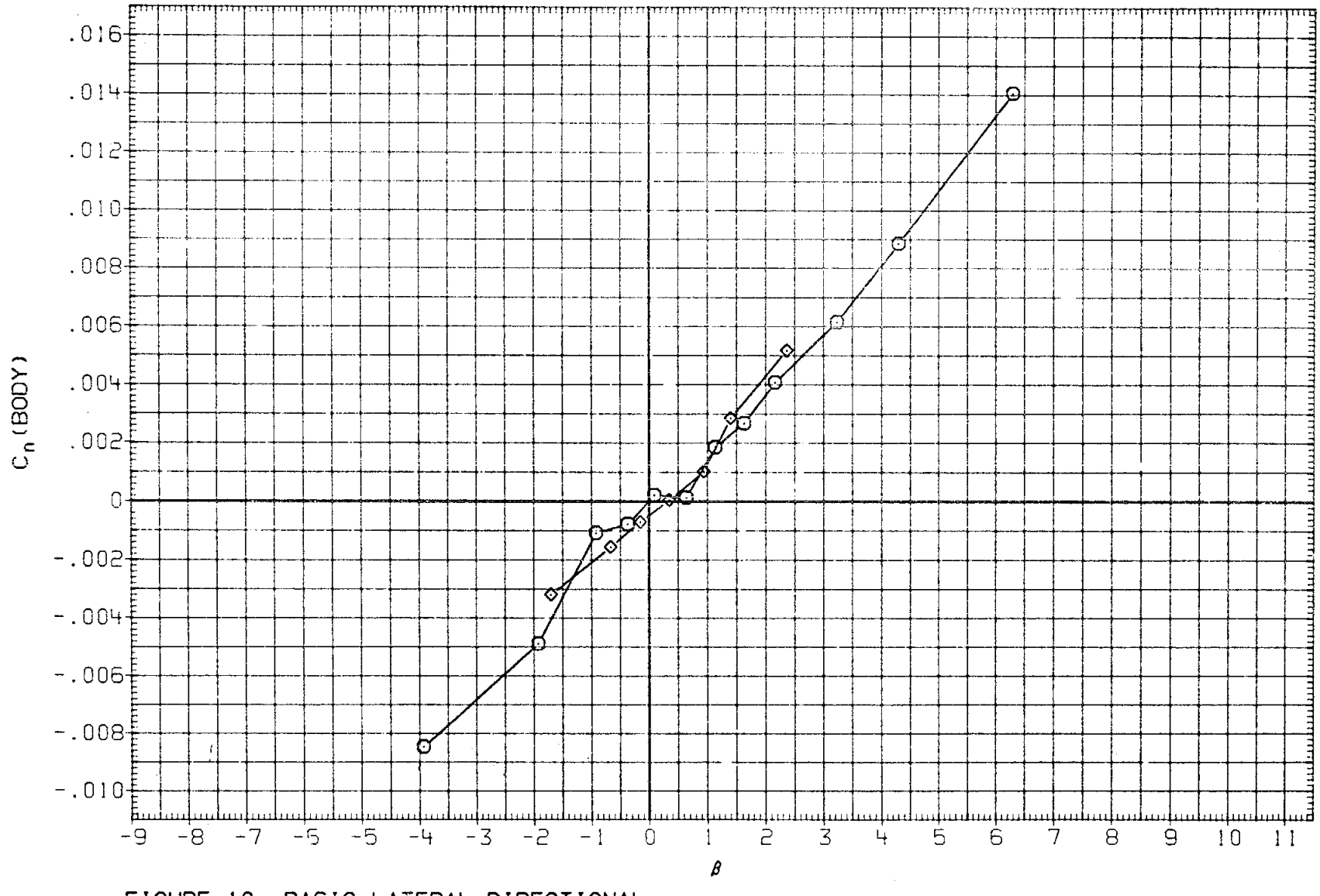

FIGURE 10. BASIC LATERAL-DIRECTIONAL

(E)MACH = .97

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
R2F017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RK0028	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	270.000
R2F002	△	DATA NOT AVAILABLE	[illegible]	.000	.000	.000	25.000	.000	

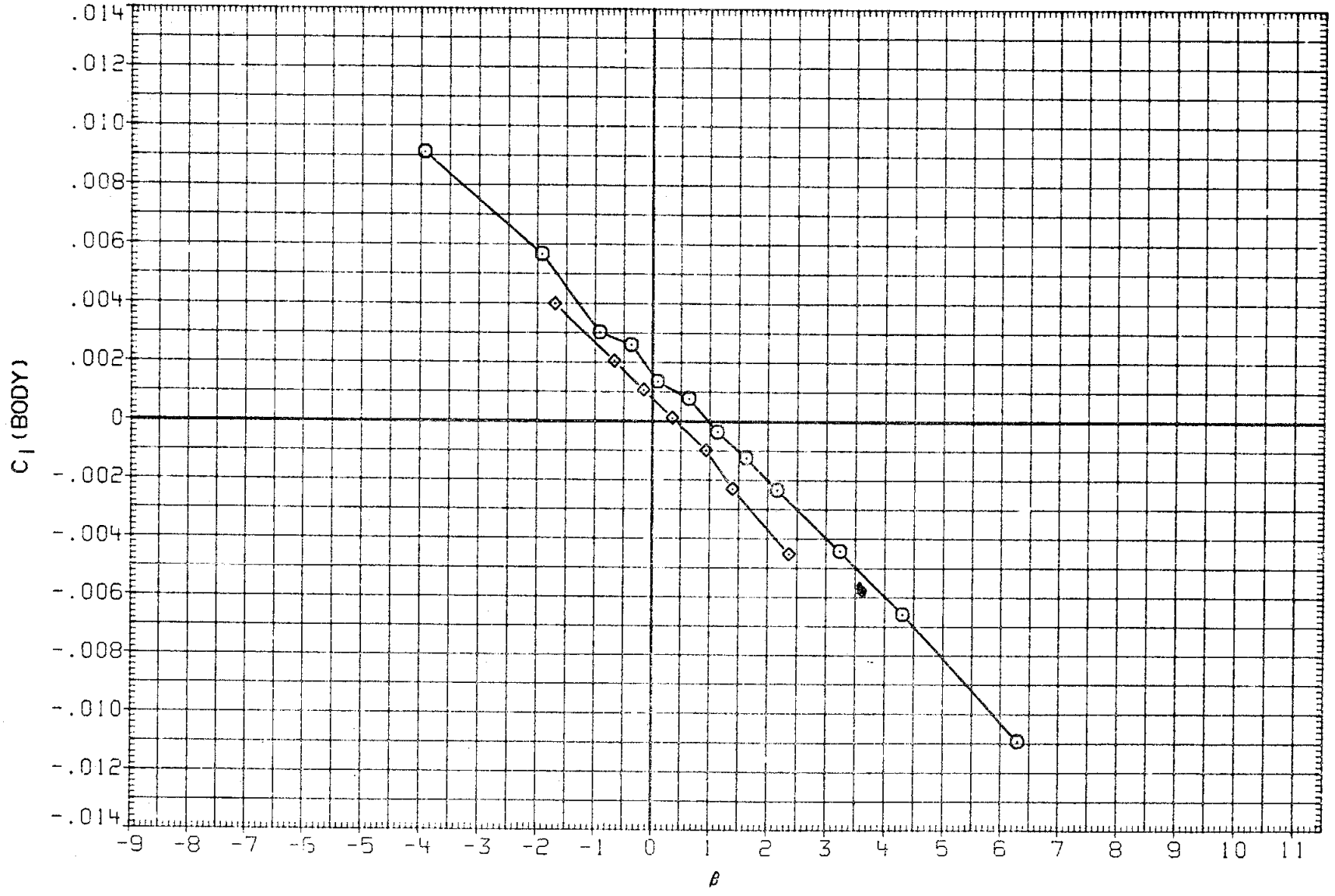

FIGURE 10. BASIC LATERAL-DIRECTIONAL

(E) MACH = .97

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
R2F017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RK0028	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	270.000
R2F002	△	AMES 118-1-11 0A145A 01(PHI=90)	.000	.000	.000	.000	25.000	.000	

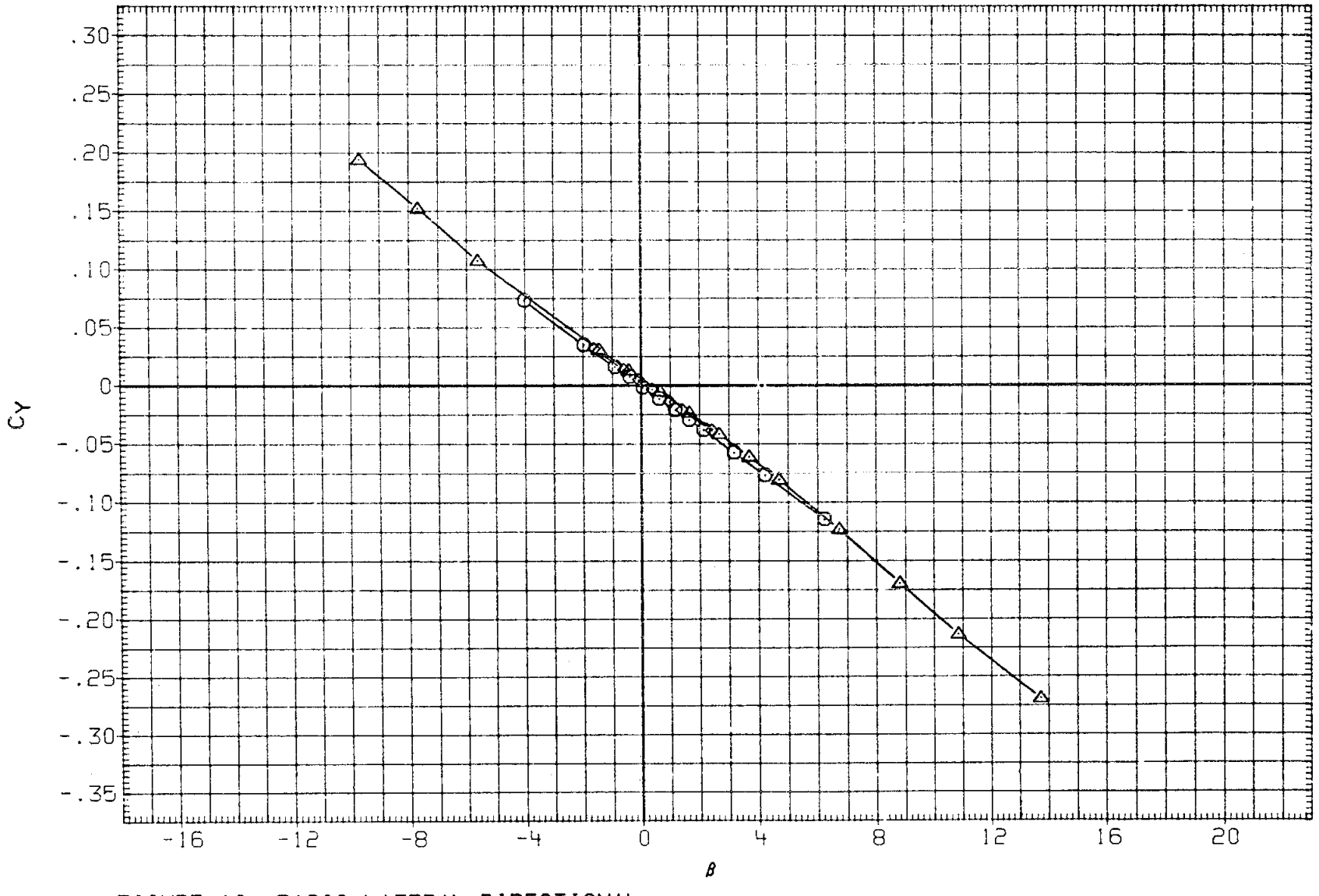

FIGURE 10. BASIC LATERAL-DIRECTIONAL

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
R2F017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RK0028	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	270.000
R2F002	△	AMES 118-1-11 OA145A 01(PHI=90)	.000	.000	.000	.000	25.000	.000	

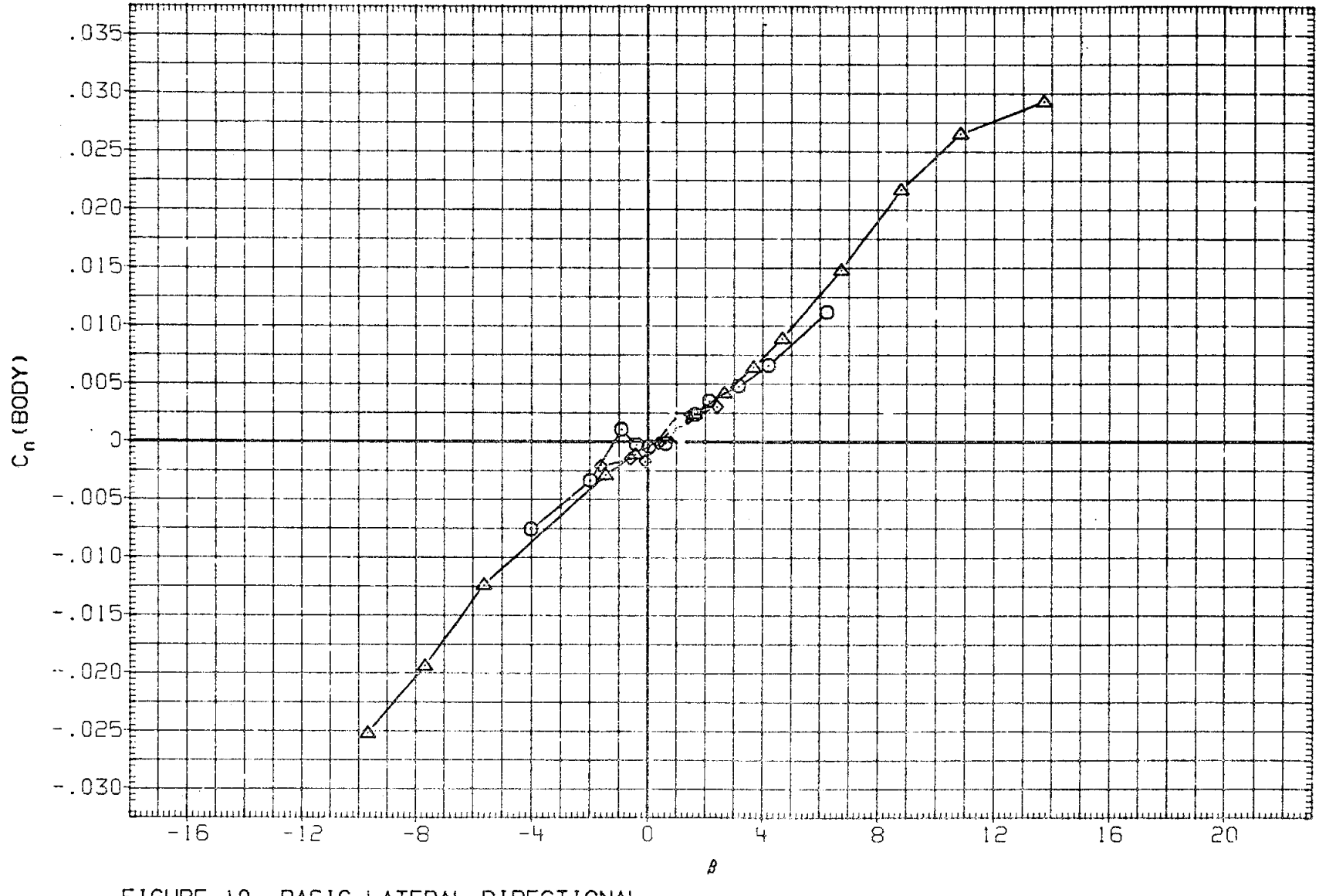

FIGURE 10. BASIC LATERAL-DIRECTIONAL

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
R2F017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RK0028	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	270.000
R2F002	△	AMES 118-1-11 OA145A 01(PHI=90)	.000	.000	.000	.000	25.000	.000	

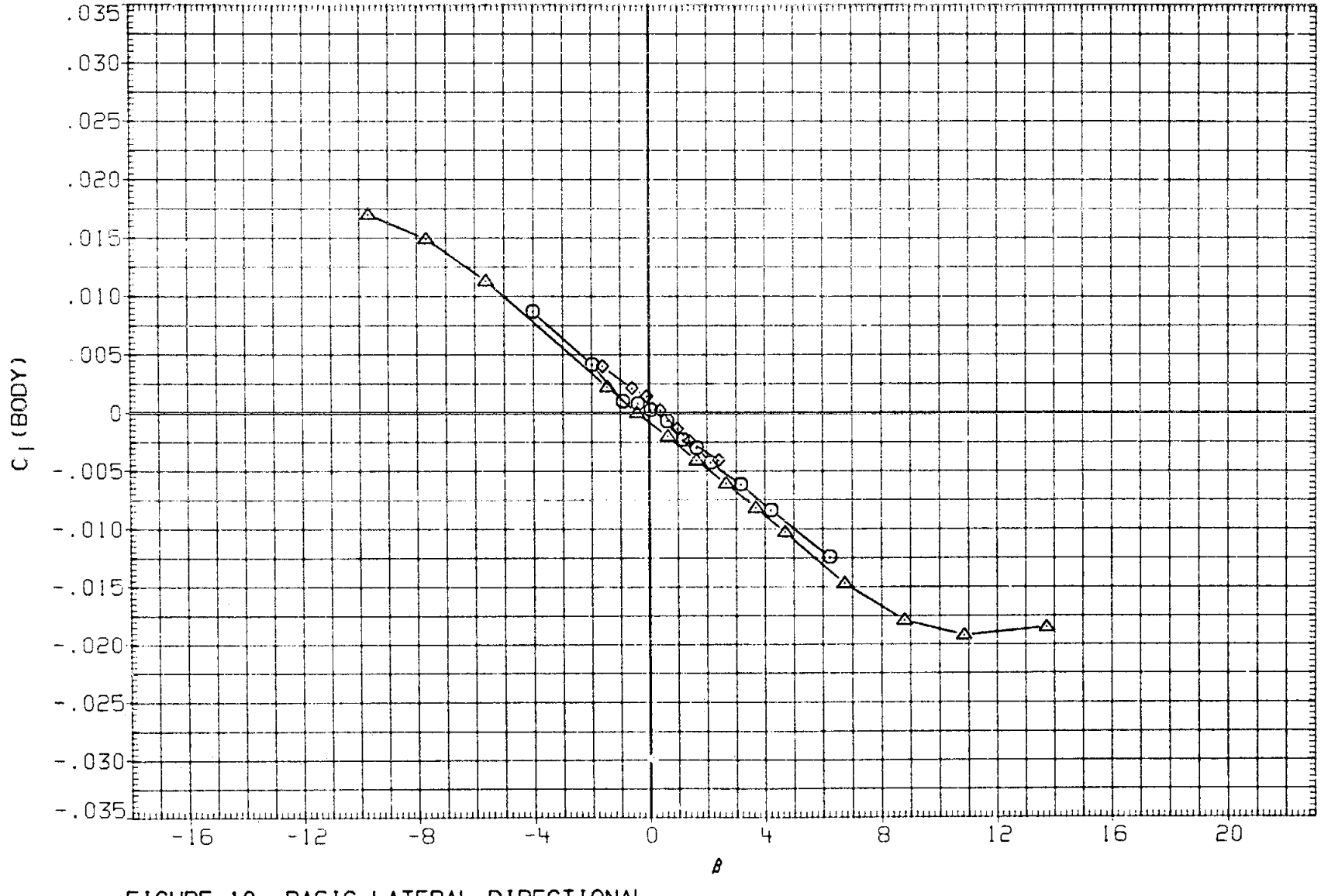

FIGURE 10. BASIC LATERAL-DIRECTIONAL

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
R2F017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RK0028	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	270.000
R2F002	△	AMES 118-1-11 0A145A 01(PHI=90)	.000	.000	.000	.000	25.000	.000	

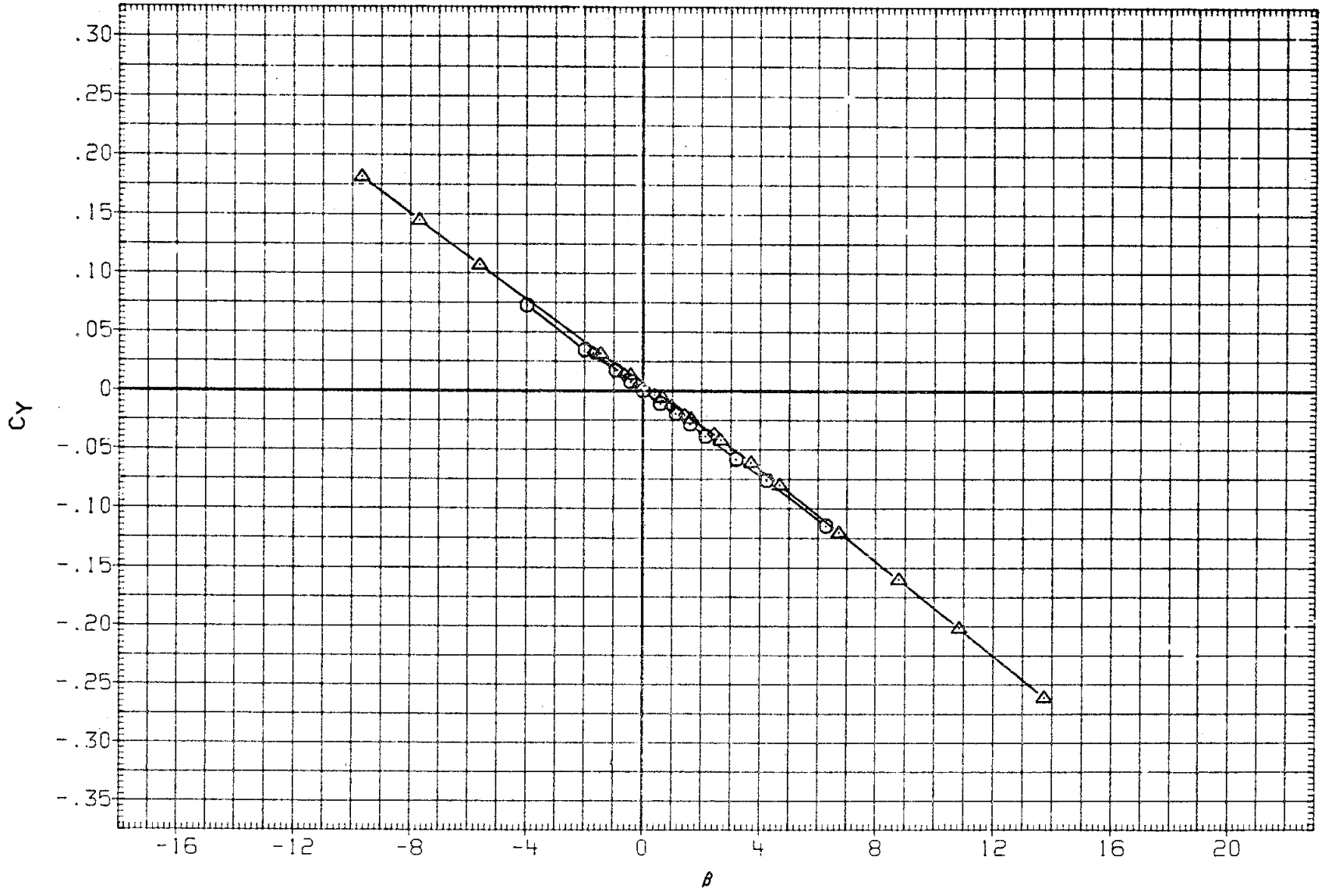

FIGURE 10. BASIC LATERAL-DIRECTIONAL

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
R2F017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RK0028	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	270.000
R2F002	△	AMES 118-1-11 OA145A 01(PHI=90)	.000	.000	.000	.000	25.000	.000	

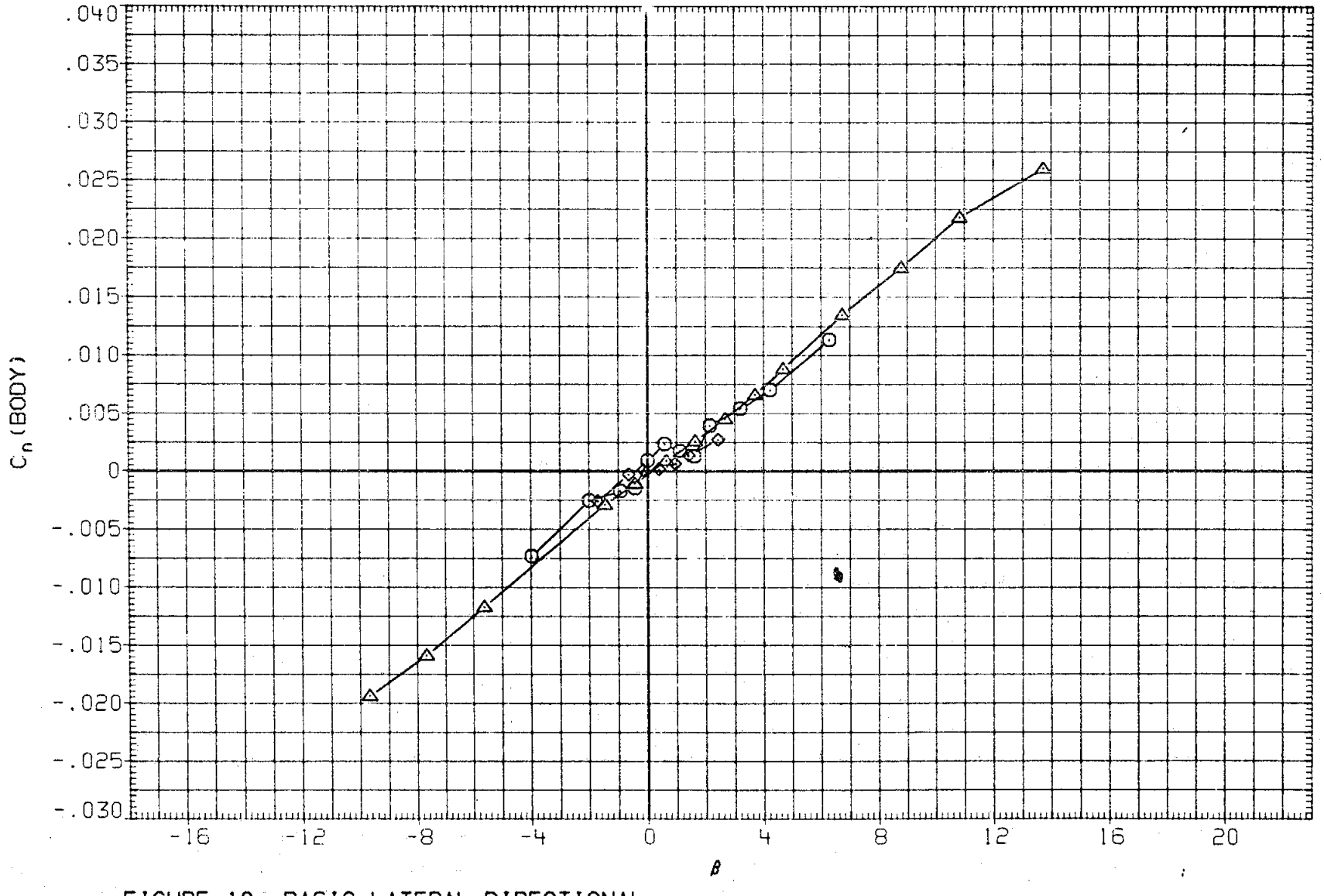

FIGURE 10. BASIC LATERAL-DIRECTIONAL

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
R2F017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RK0028	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	270.000
R2F002	△	AMES 11B-1-11 OA145A 01(PHI=90)	.000	.000	.000	.000	25.000	.000	

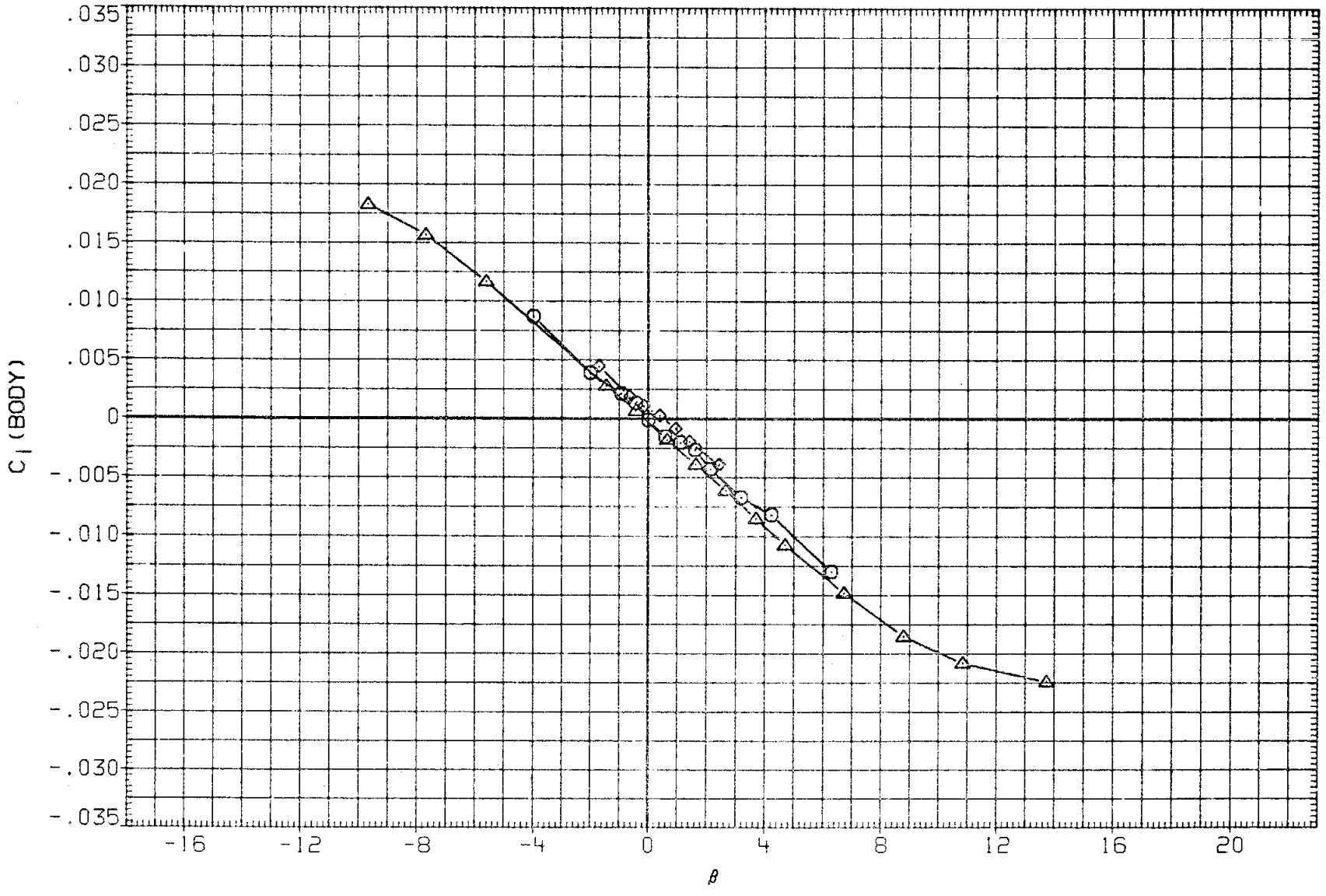

FIGURE 10. BASIC LATERAL-DIRECTIONAL

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
R2F017	□	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	25.000	.000	
RK0029	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	270.000
R2F002	△	AMES 118-1-11 0A145A 01(PHI=90)	.000	.000	.000	.000	25.000	.000	

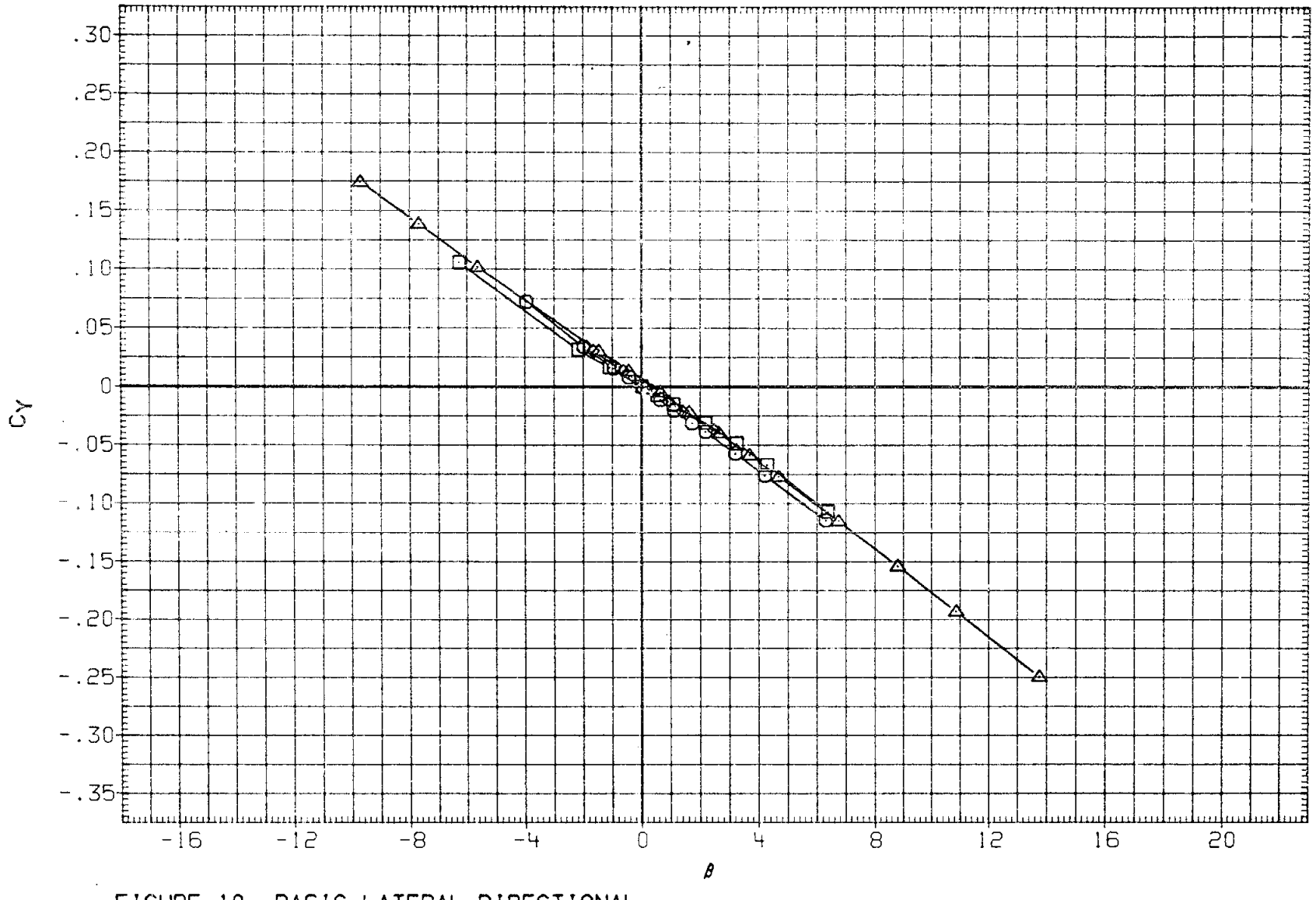

FIGURE 10. BASIC LATERAL-DIRECTIONAL

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
R2F017	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0028	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	270.000
R2F002	△	AMES 118-1-11 OA145A 01(PHI=90)	.000	.000	.000	.000	25.000	.000	

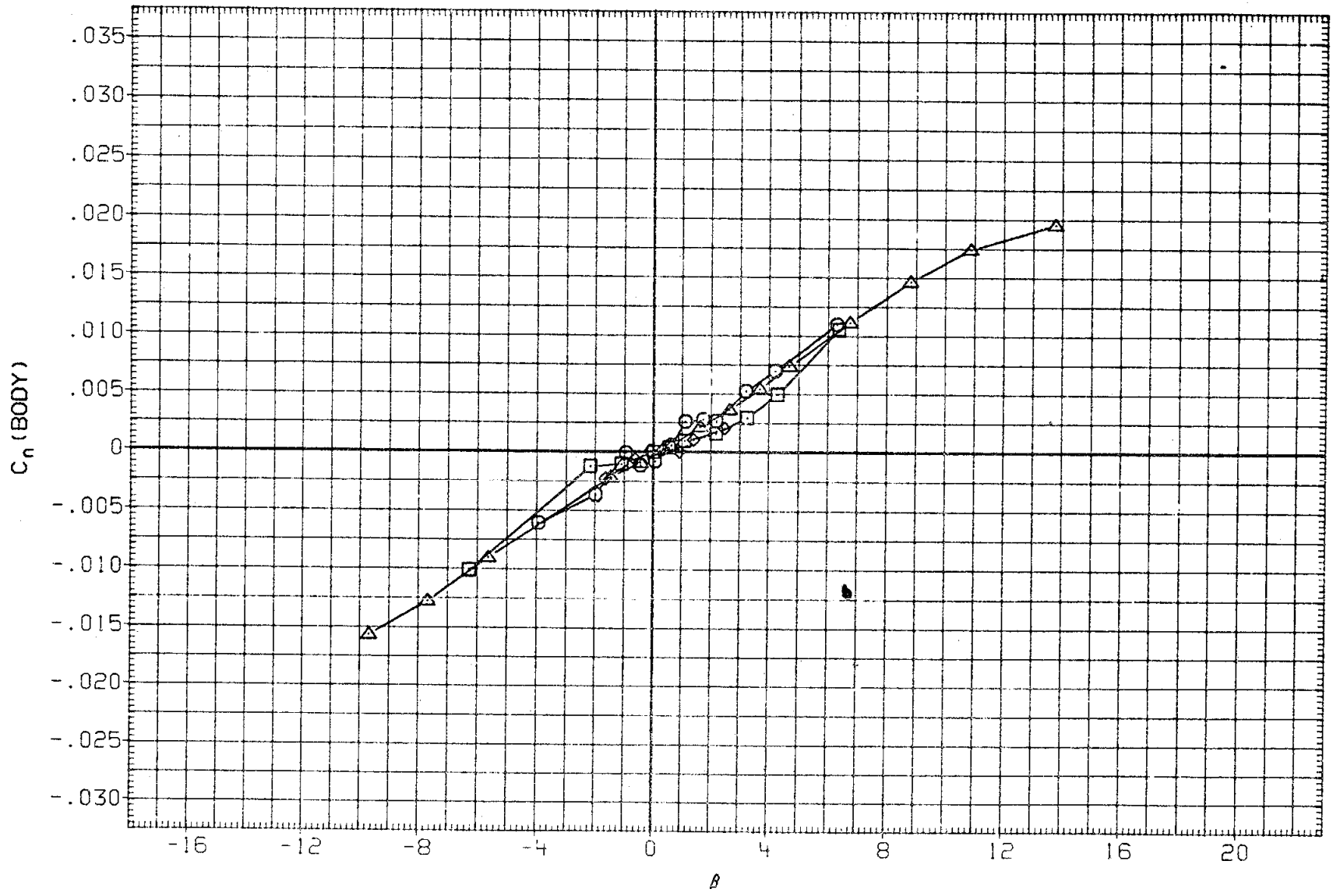

FIGURE 10. BASIC LATERAL-DIRECTIONAL

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
R2F017	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0028	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	270.000
R2F002	△	AMES 118-1-11 OA145A 01(PHI=90)	.000	.000	.000	.000	25.000	.000	

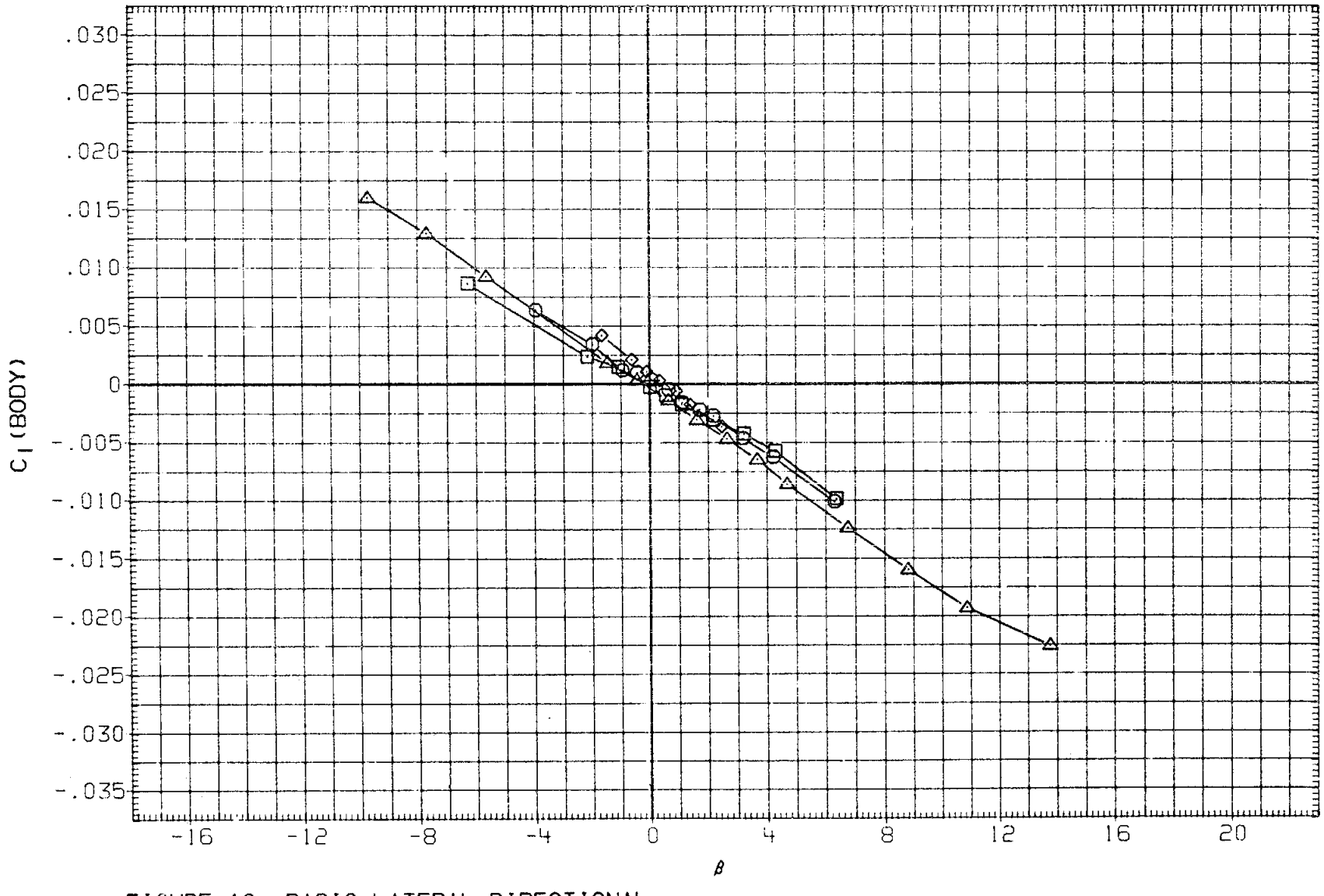

FIGURE 10. BASIC LATERAL-DIRECTIONAL

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	90.000
R2F017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RK0028	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	270.000
R2F002	△	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	

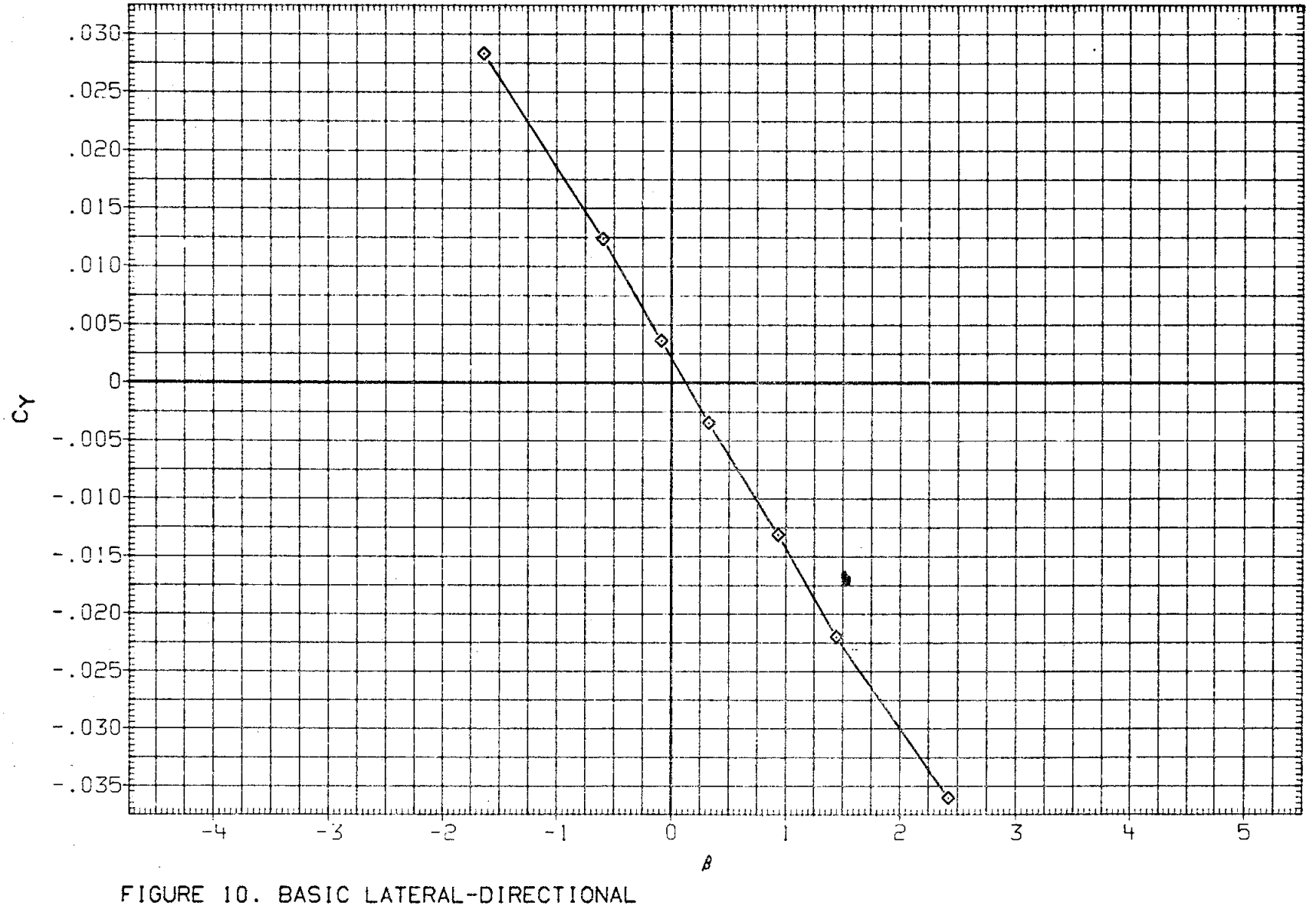

FIGURE 10. BASIC LATERAL-DIRECTIONAL

(I)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	90.000
R2F017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RK0028	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	270.000
R2F002	△	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	

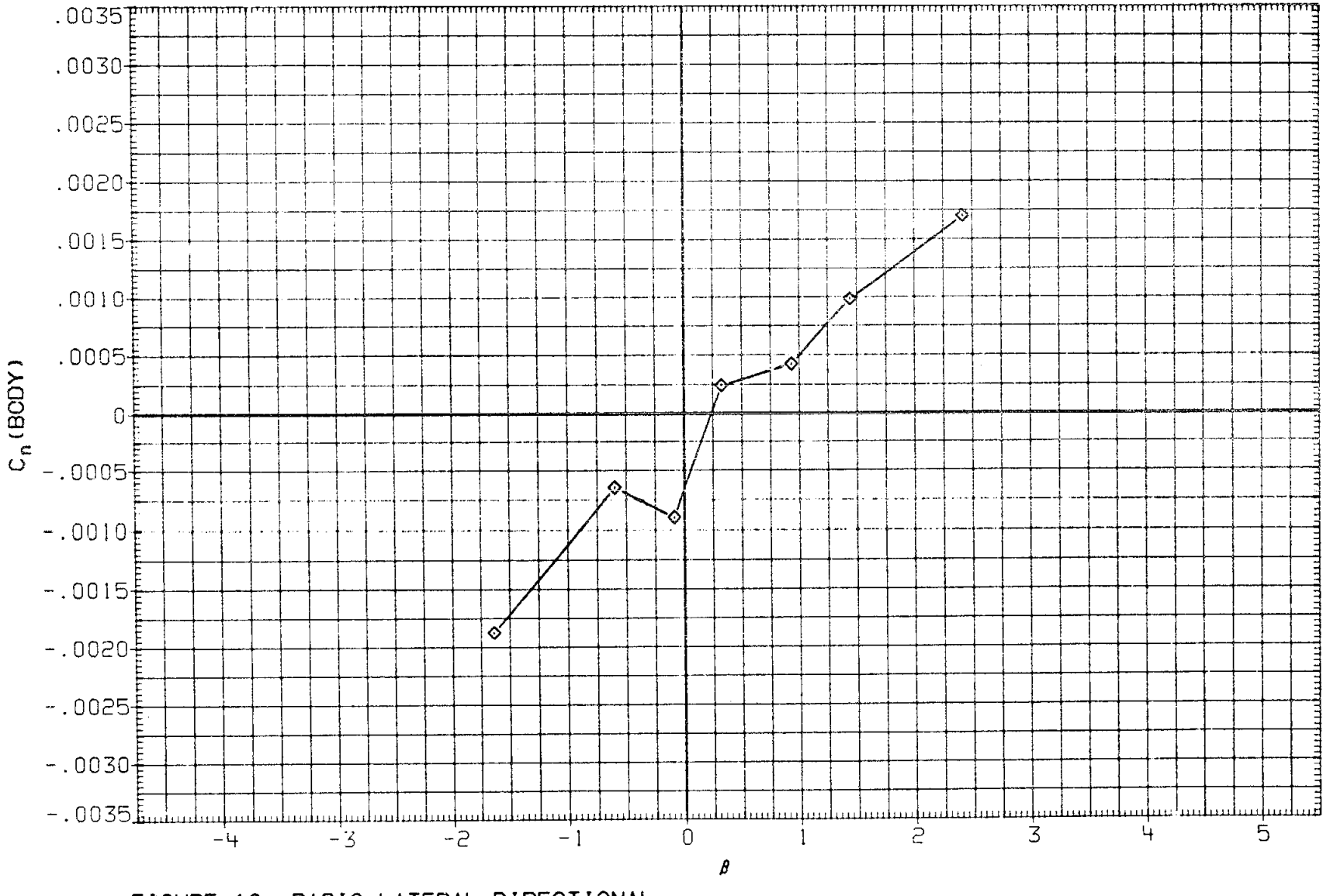

FIGURE 10. BASIC LATERAL-DIRECTIONAL

(I)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	90.000
R2F017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RK0028	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	270.000
R2F002	△	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	

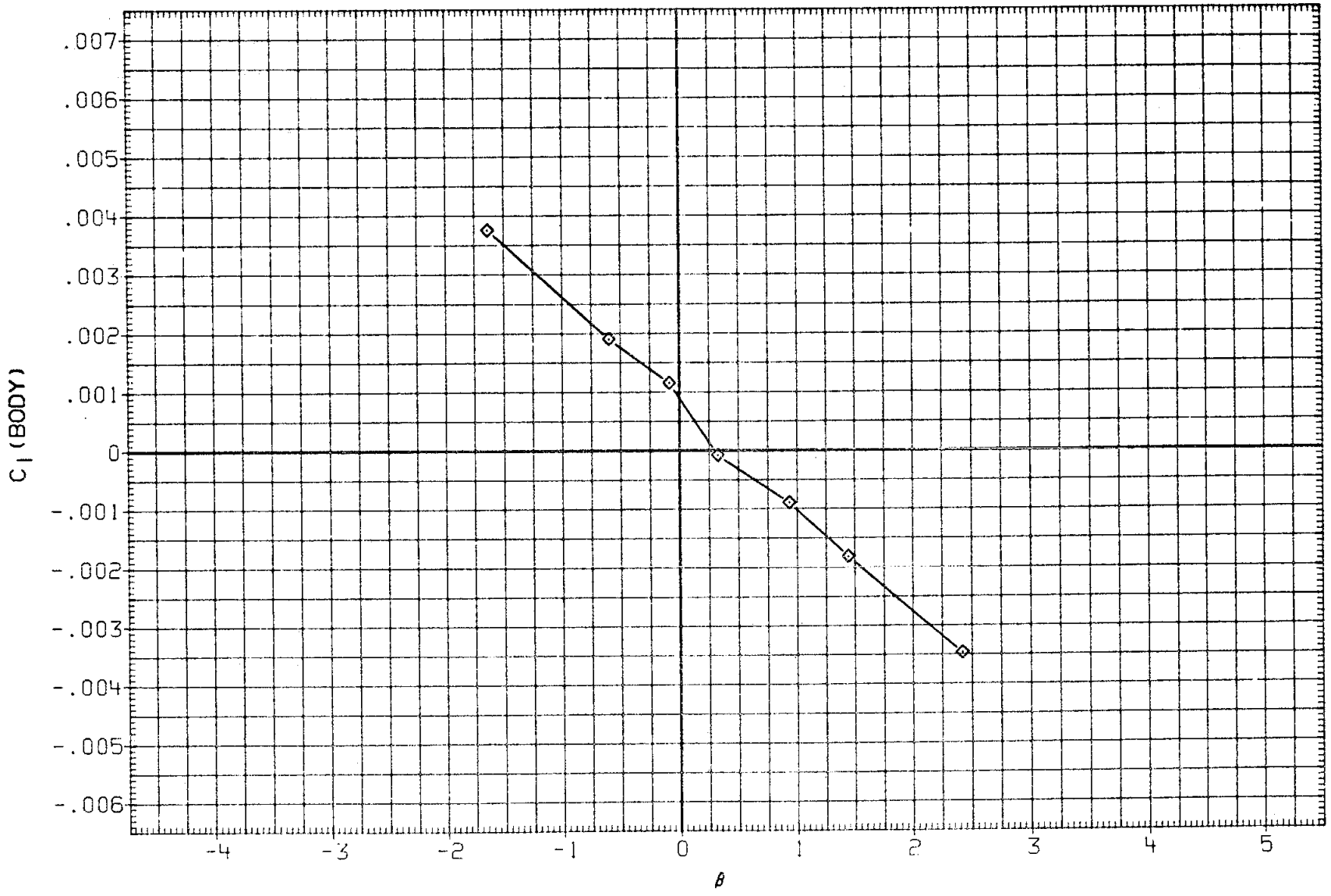

FIGURE 10. BASIC LATERAL-DIRECTIONAL

(I)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
R2F017	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0028	◇	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.500	-.030	270.000
R2F002	△	AMES 118-1-11 OA145A 01(PHI=90)	.000	.000	.000	.000	25.000	.000	

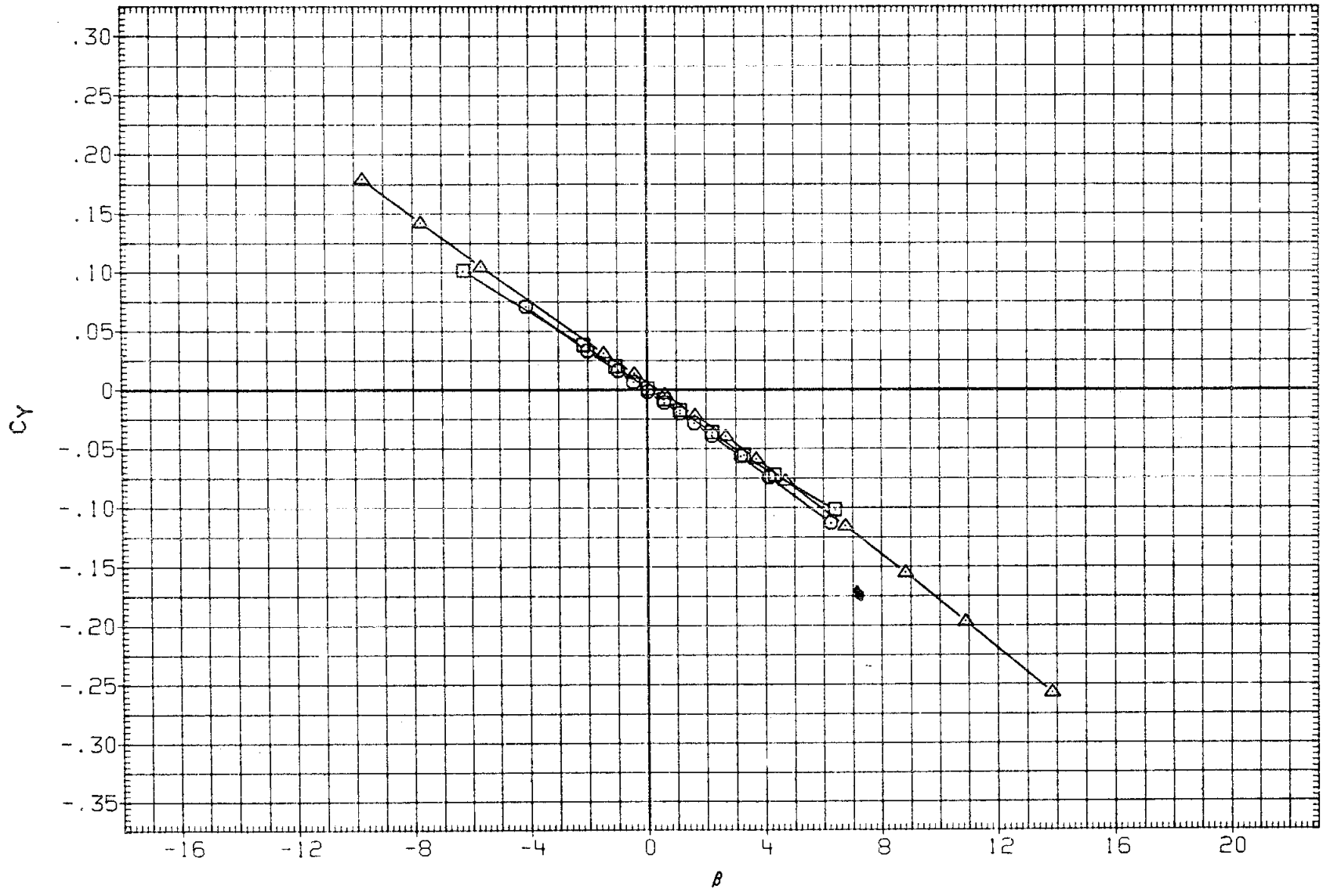

FIGURE 10. BASIC LATERAL-DIRECTIONAL

(J)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION
RK0025	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F017	□	AMES 118-1-11 OA145A 01
RK0028	◇	DATA NOT AVAILABLE
R2F002	△	AMES 118-1-11 OA145A 01(PHI=90)

ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
.000	.000	.000	.000	25.500	-.030	90.000
.000	.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	25.500	-.030	270.000
.000	.000	.000	.000	25.000	.000	

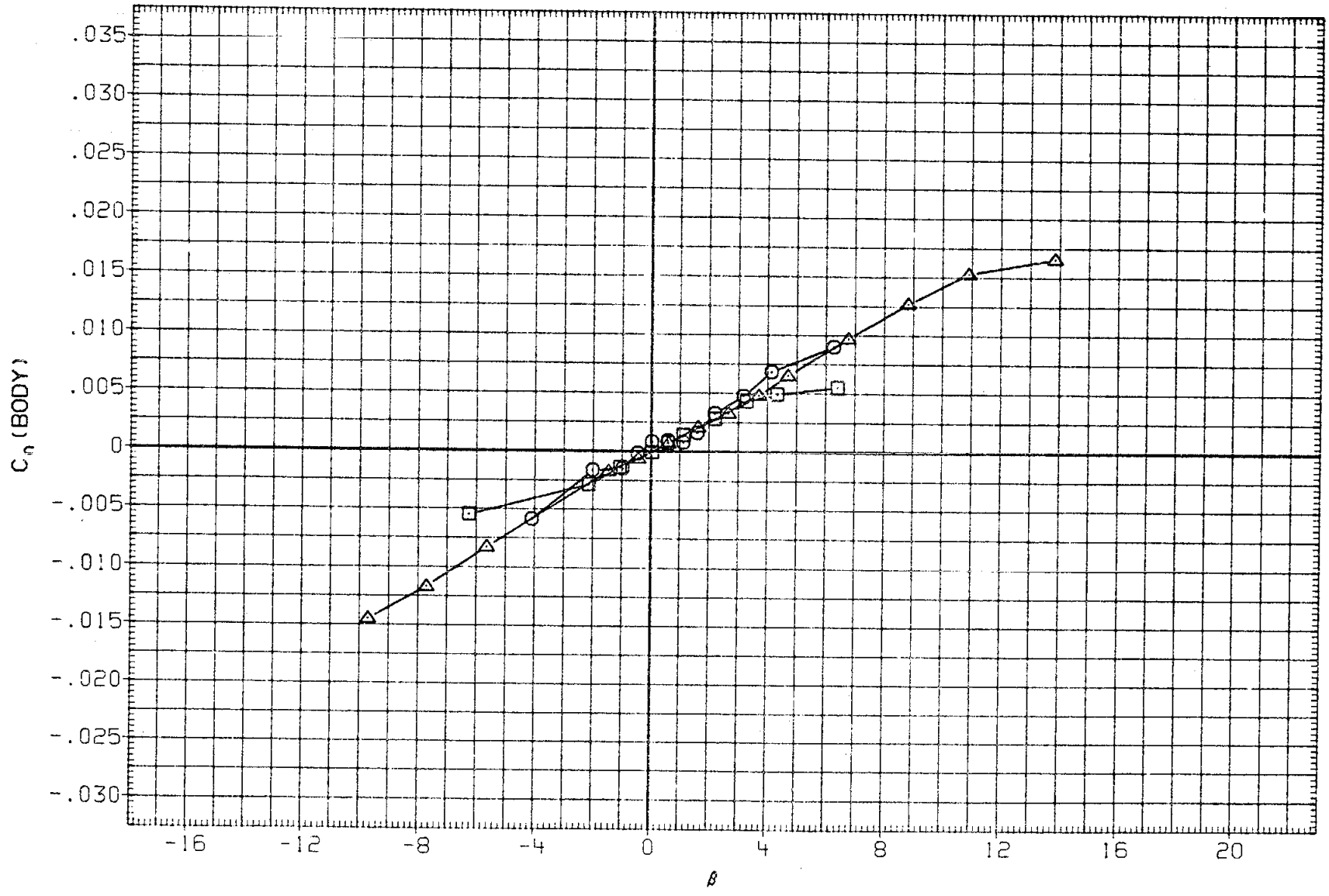

FIGURE 10. BASIC LATERAL-DIRECTIONAL

(J)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
R2F017	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0028	◇	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.500	-.030	270.000
R2F002	△	AMES 118-1-11 OA145A 01(PHI=90)	.000	.000	.000	.000	25.000	.000	

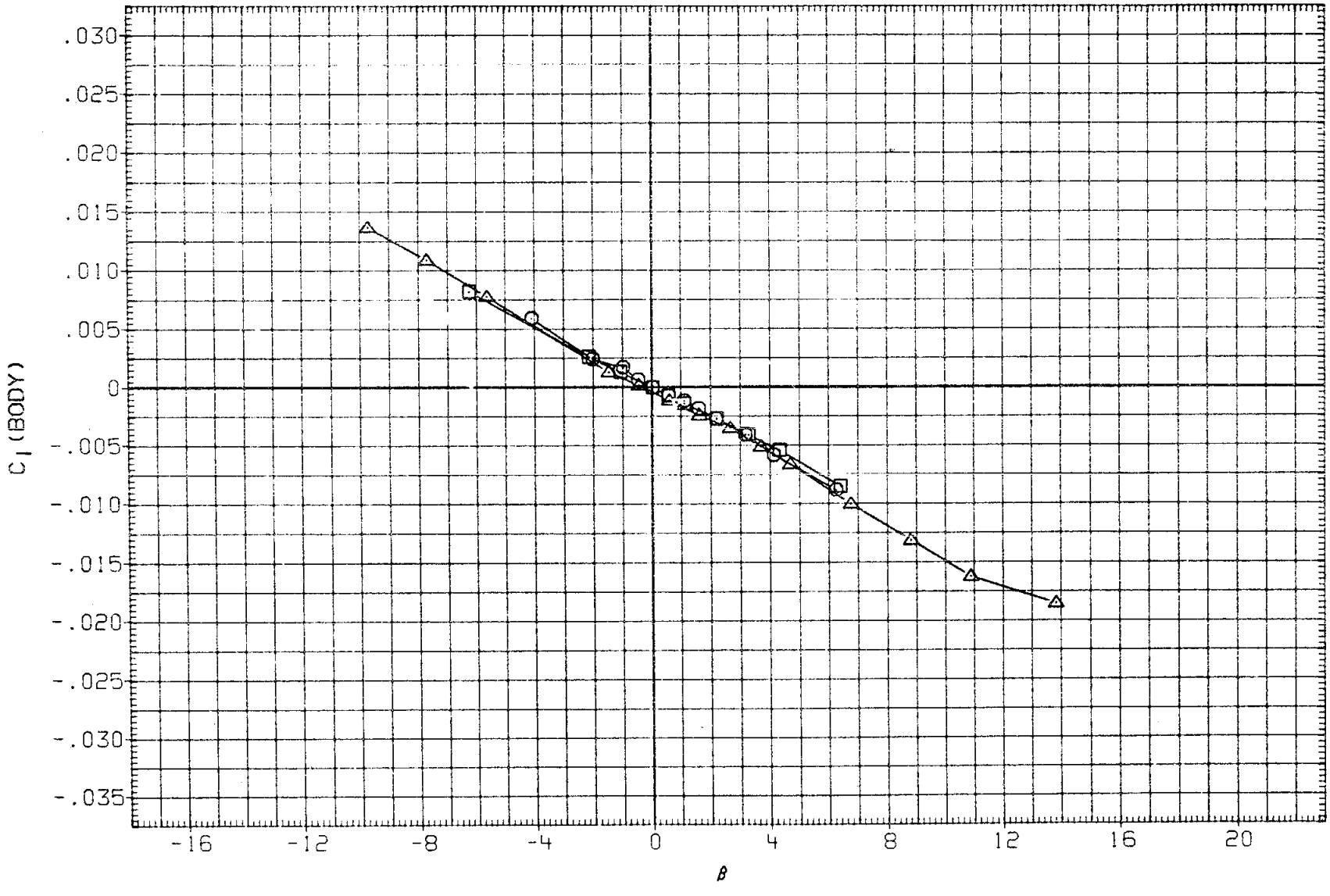

FIGURE 10. BASIC LATERAL-DIRECTIONAL

(J)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	90.000
R2F017	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0028	◇	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.500	-.030	270.000
R2F002	△	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	

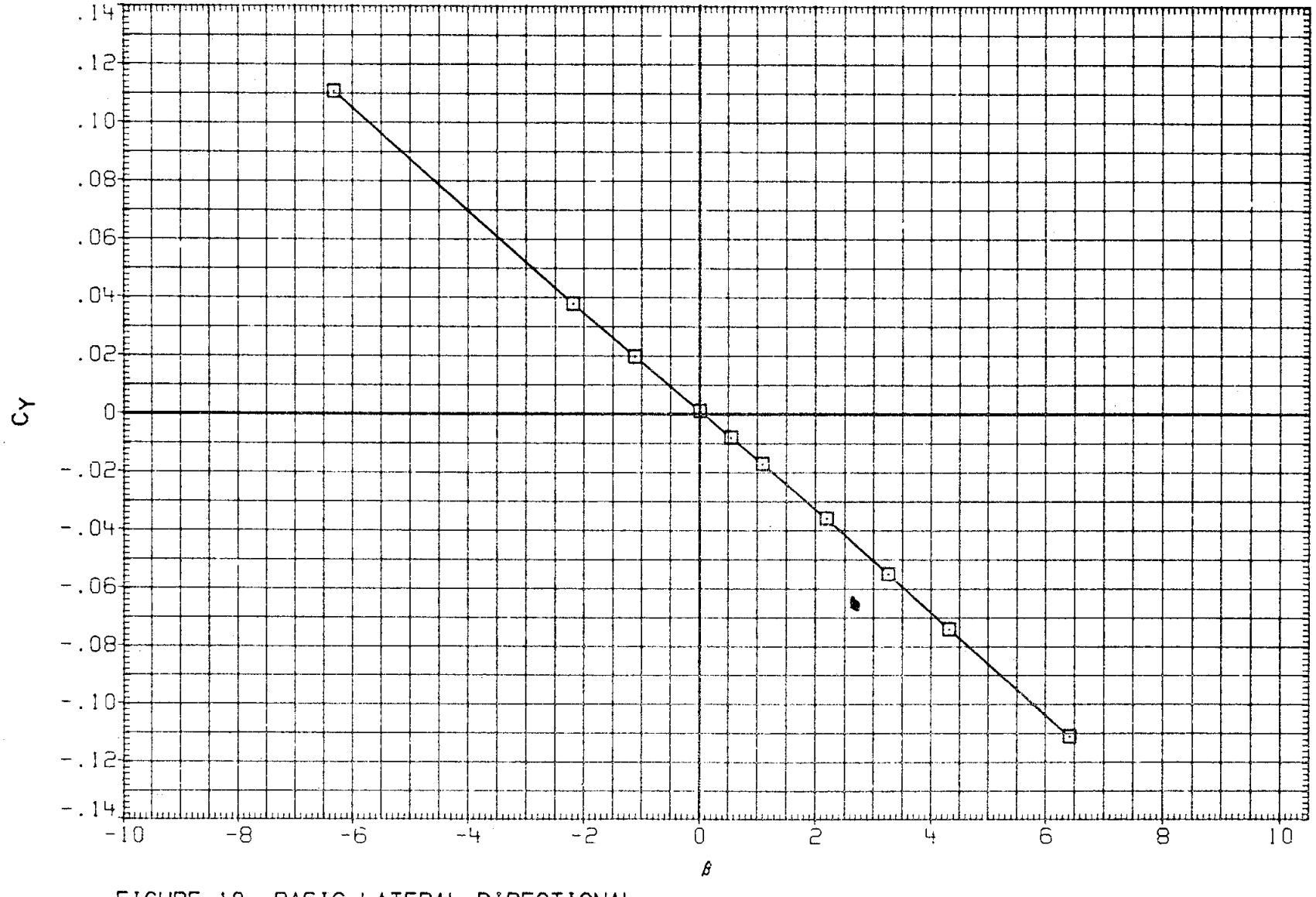

FIGURE 10. BASIC LATERAL-DIRECTIONAL

(K)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	90.000
R2F017	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0028	◇	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.500	-.030	270.000
R2F002	△	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	

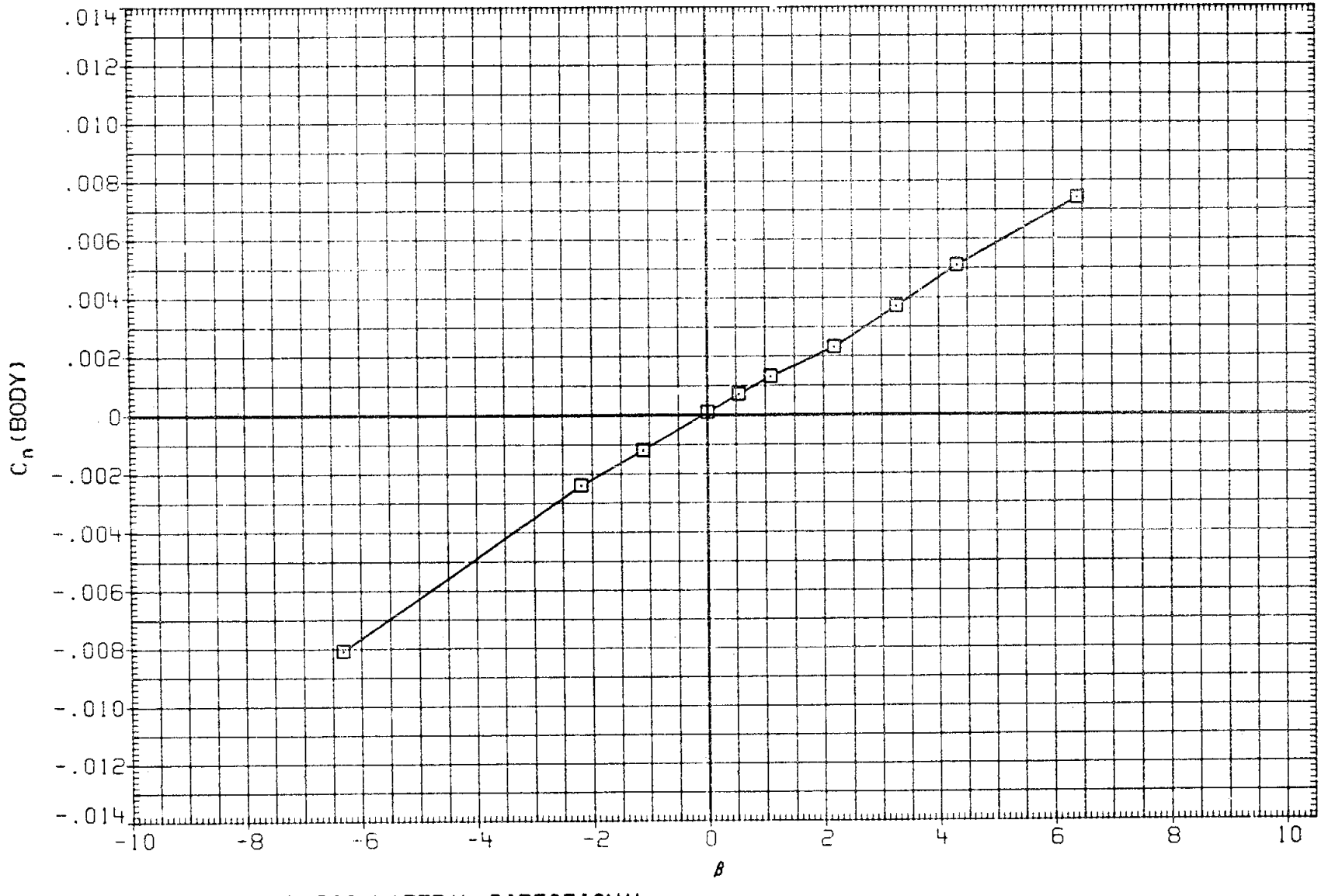

FIGURE 10. BASIC LATERAL-DIRECTIONAL

(K)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	90.000
R2F017	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0028	◇	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.500	-.030	270.000
R2F002	△	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	

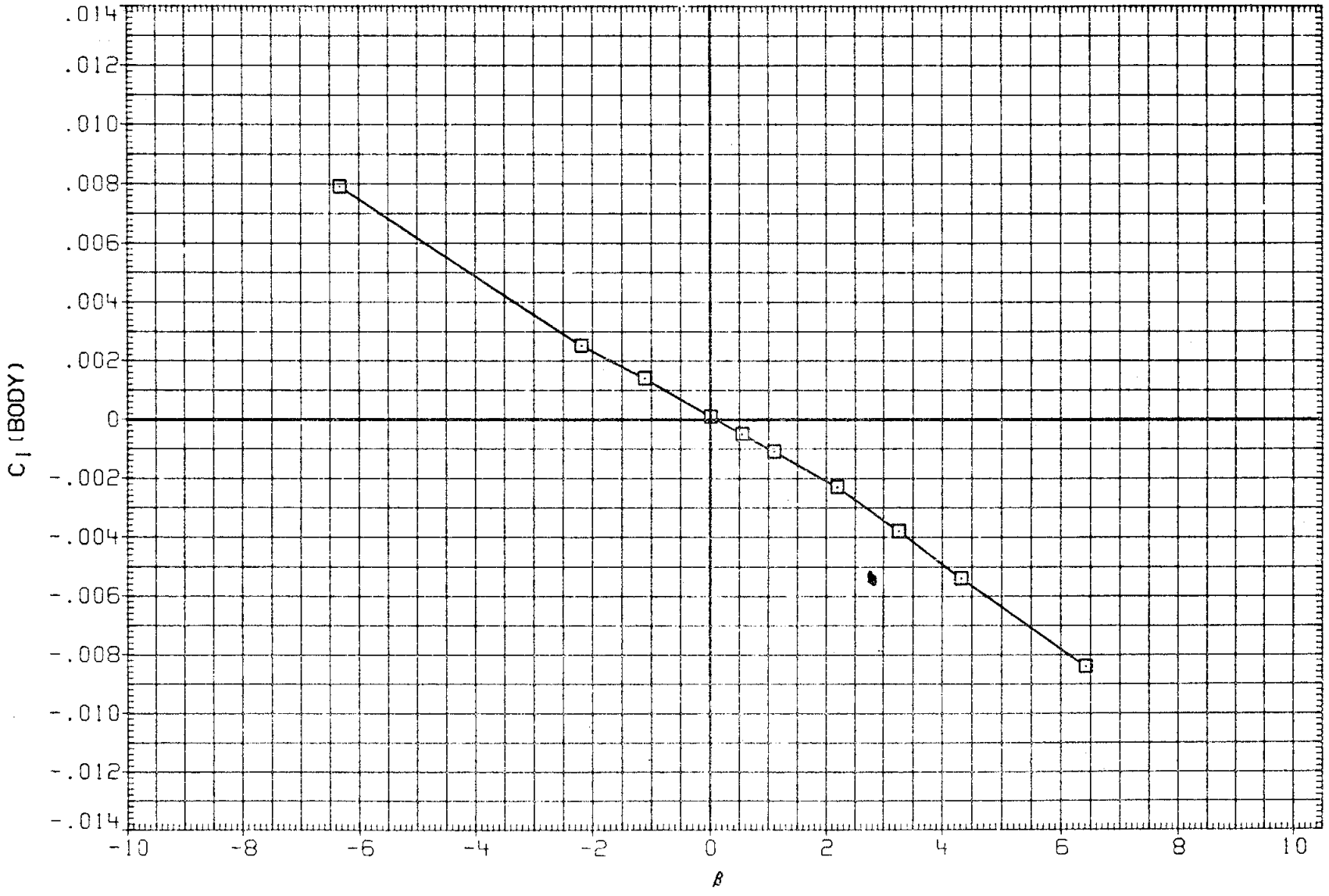

FIGURE 10. BASIC LATERAL-DIRECTIONAL

(K)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

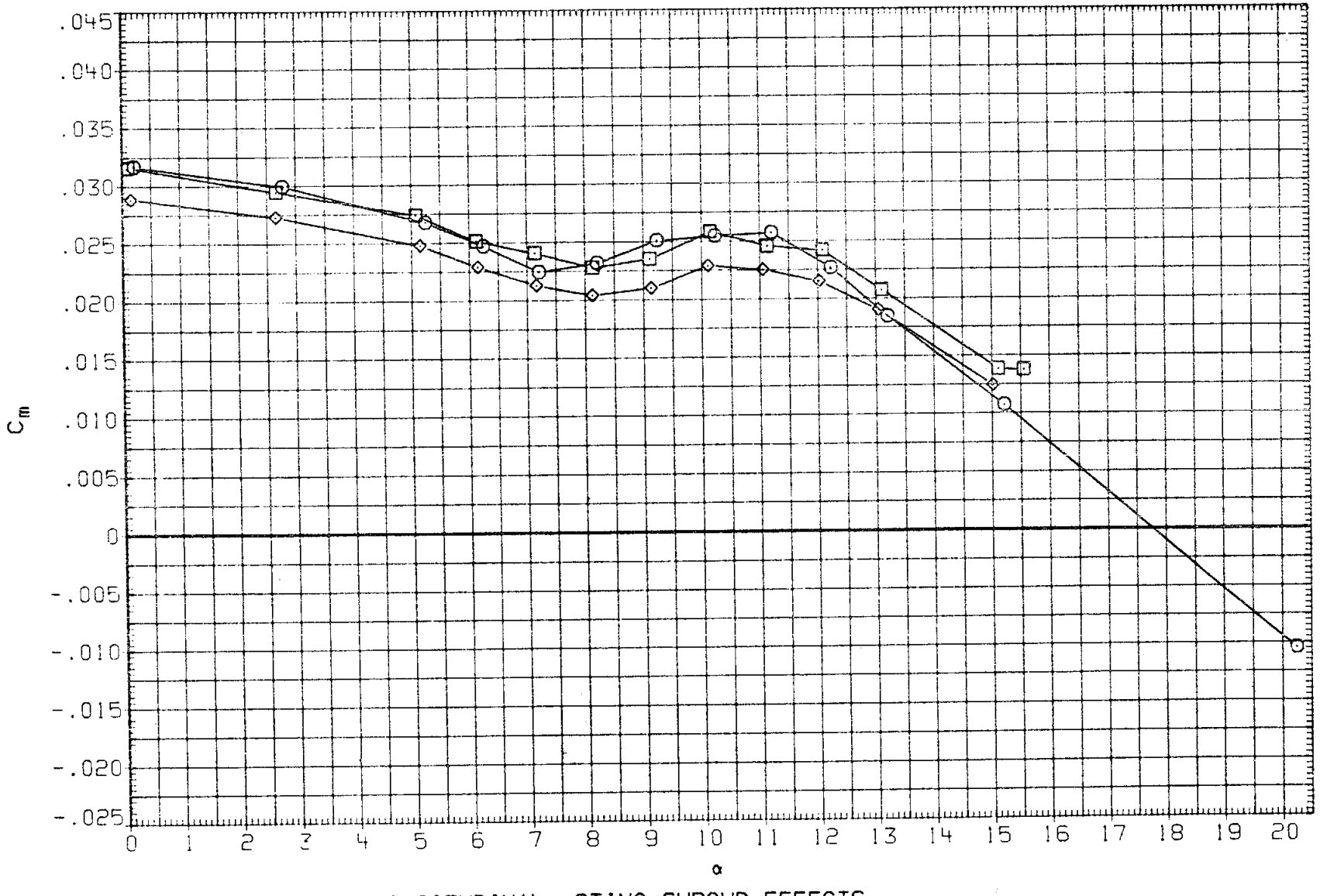

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORR.	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

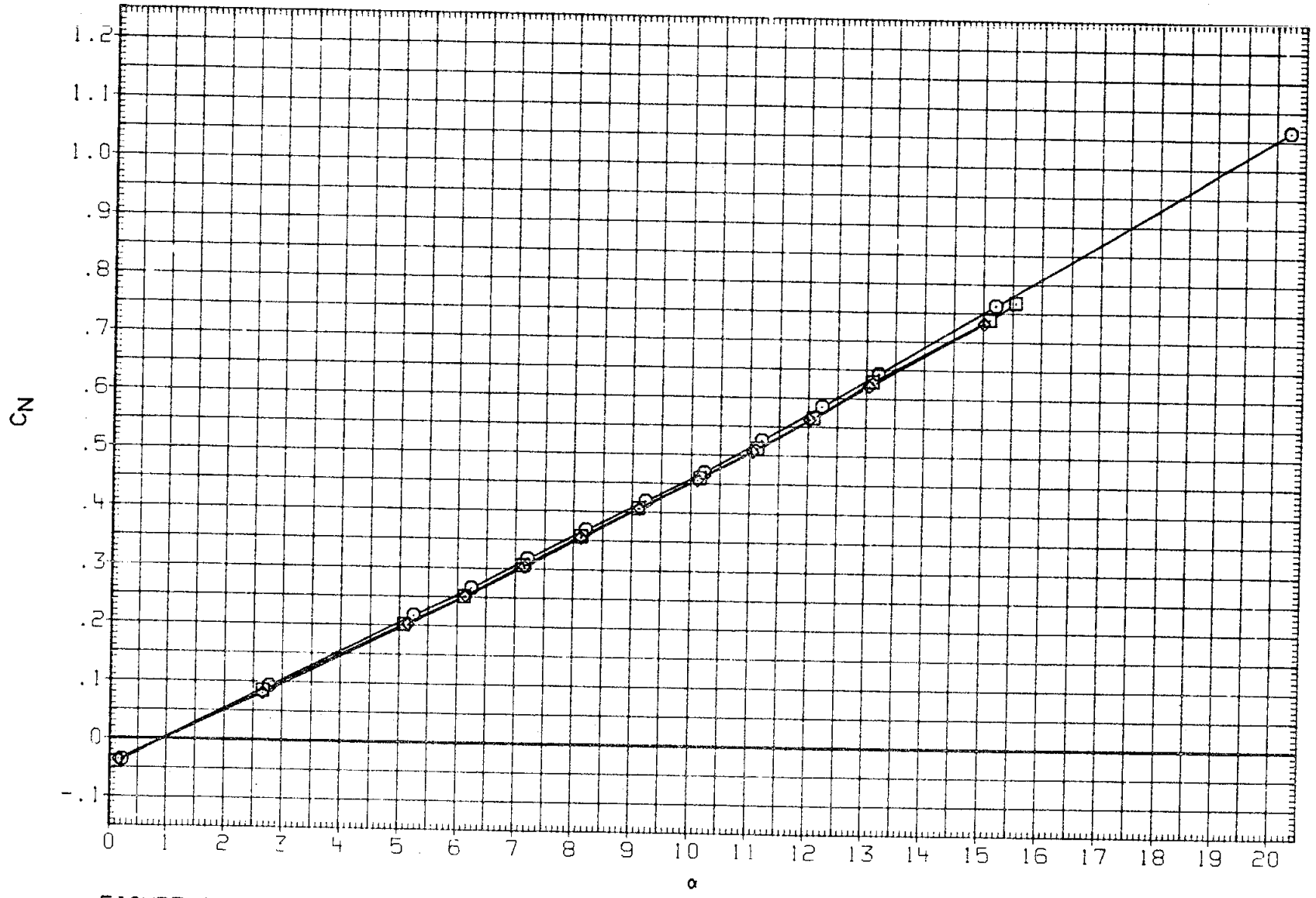

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

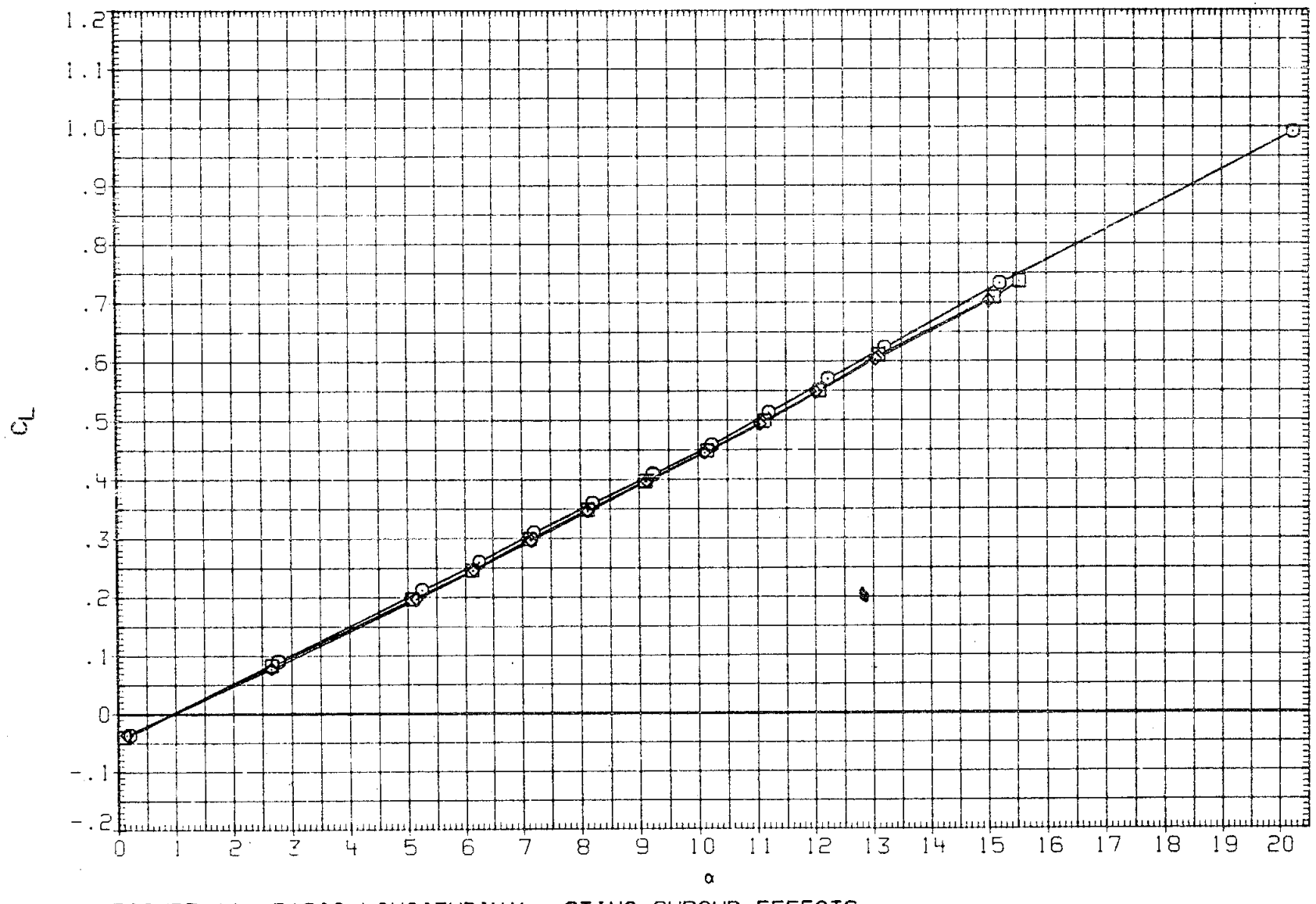

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

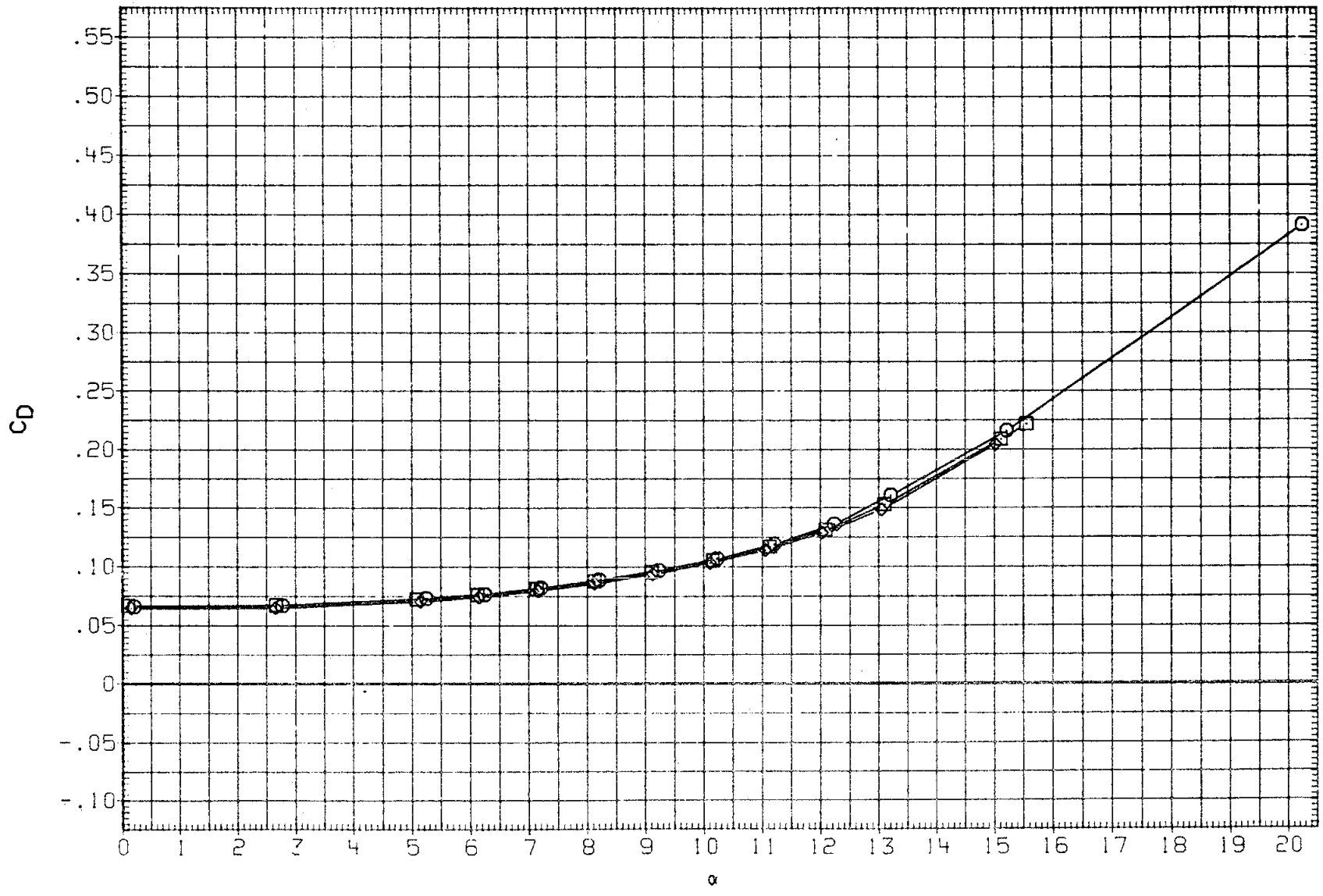

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

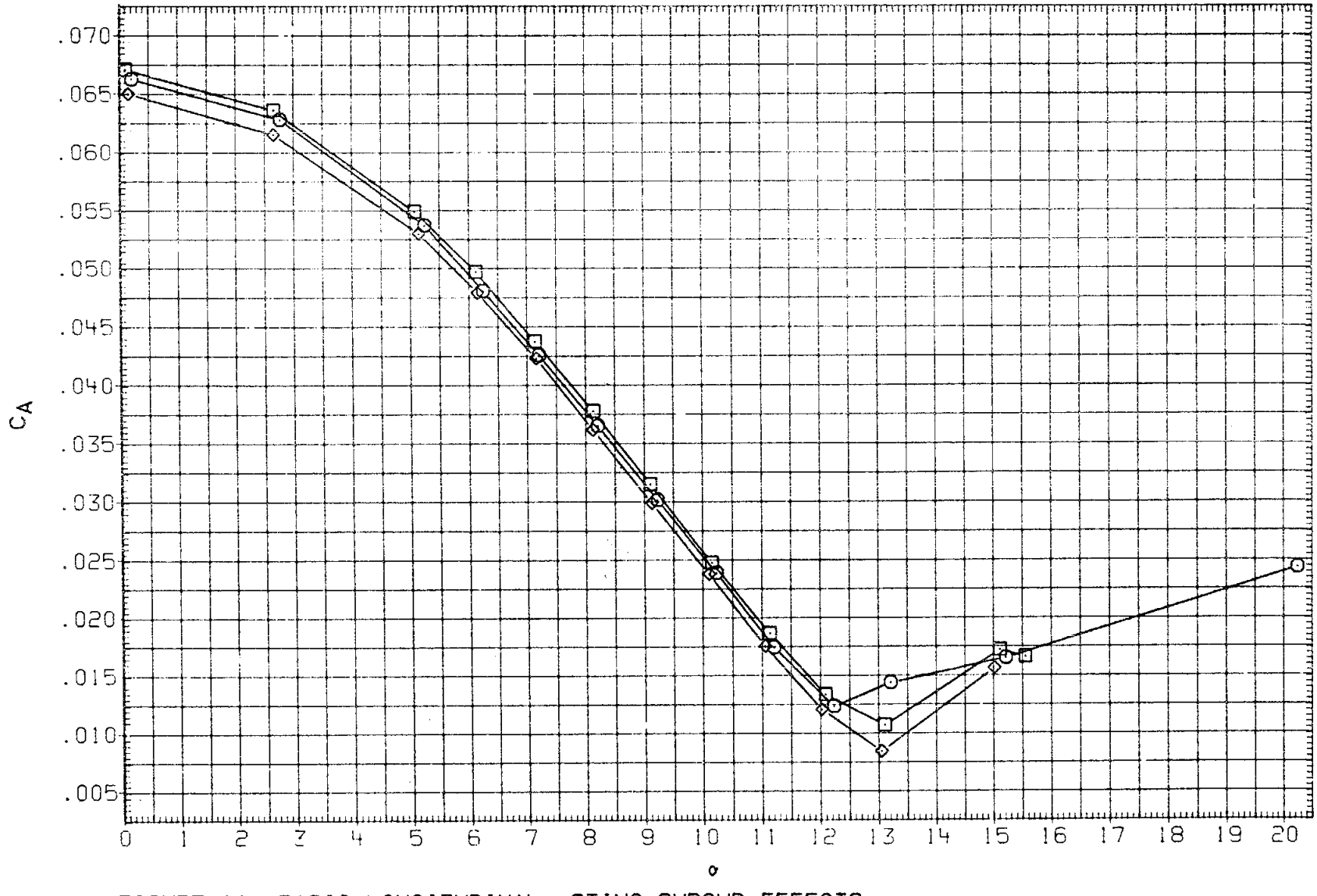

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

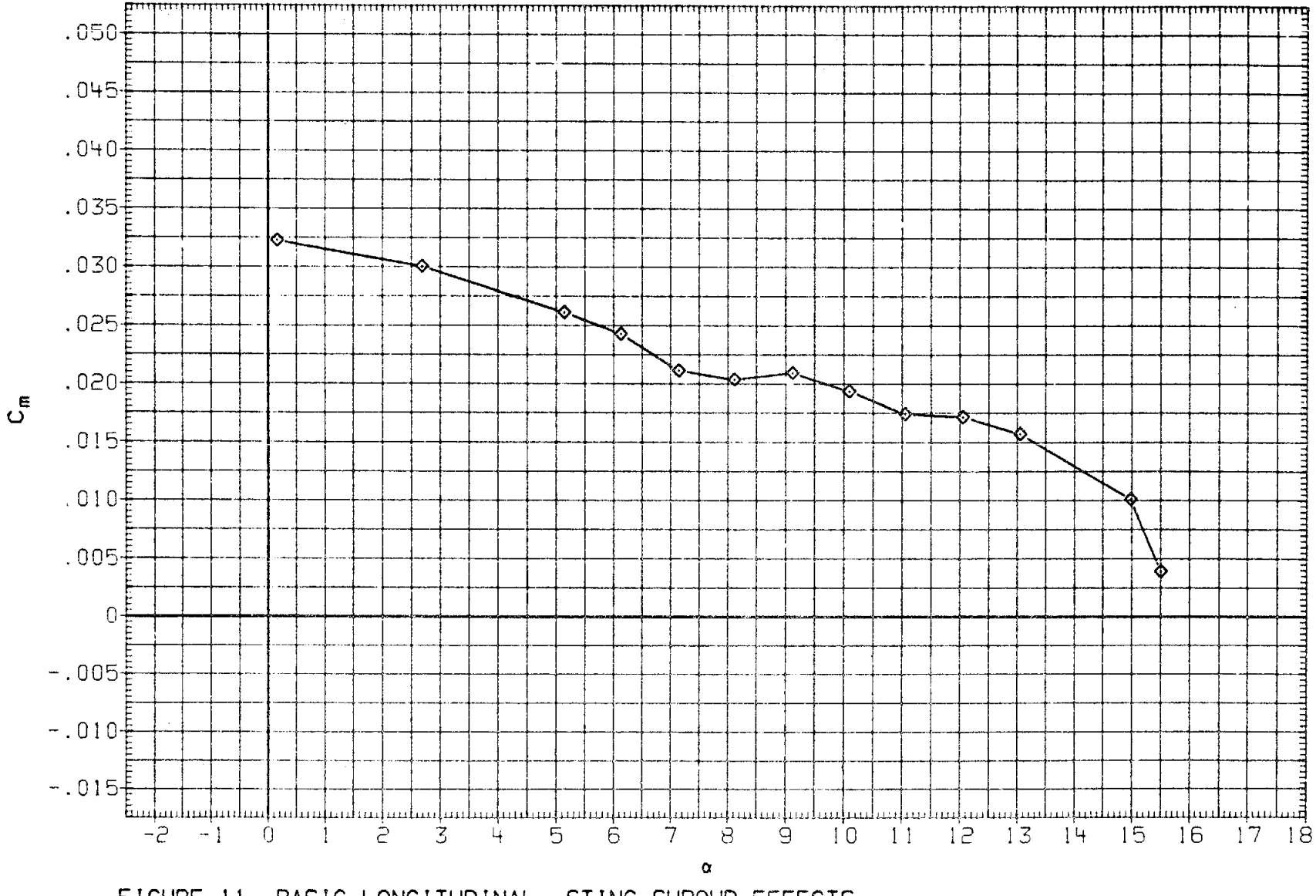

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(B)MACH = .70

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

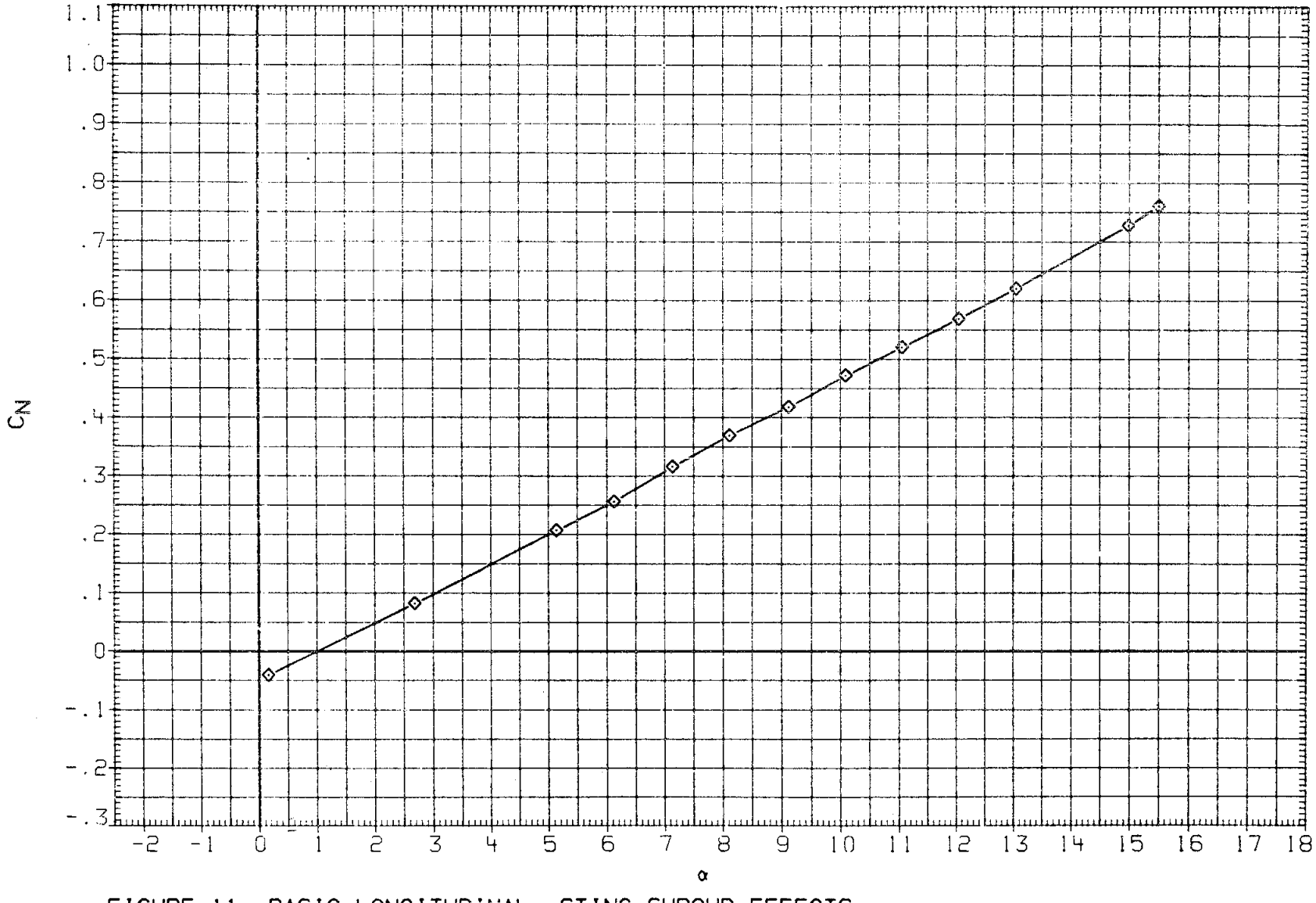

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(B)MACH = .70

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

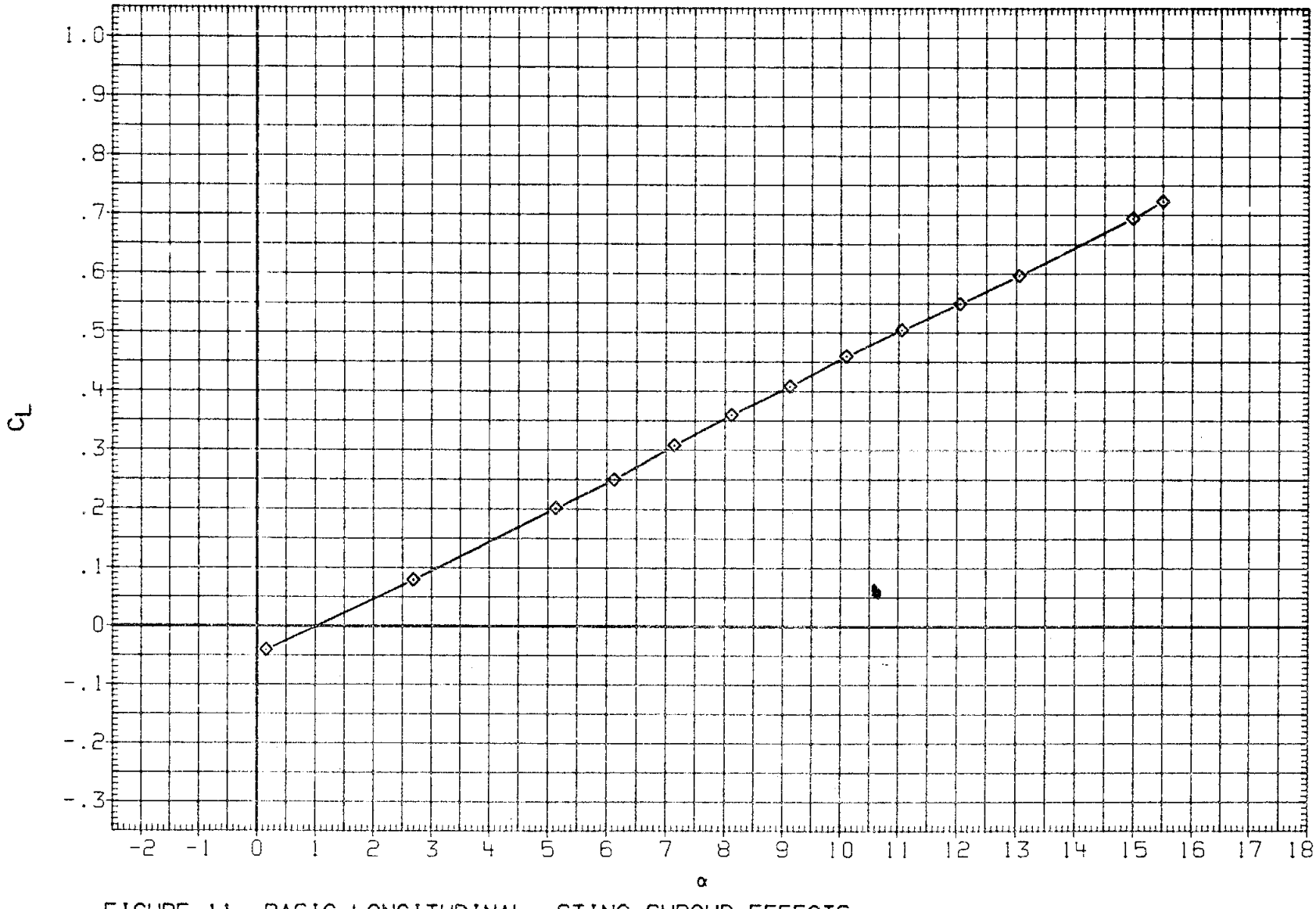

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(B)MACH = .70

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(0A270B' 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

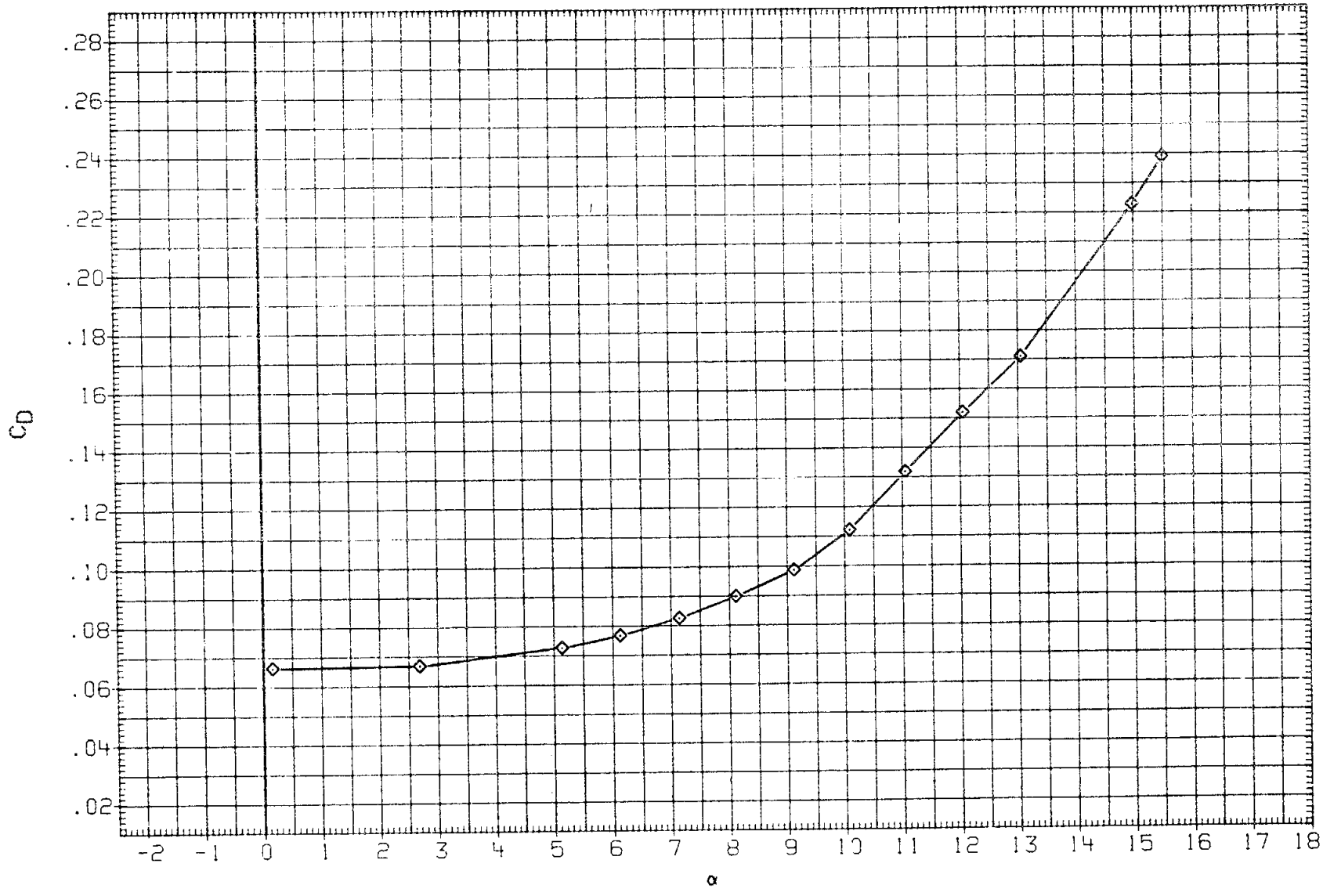

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(B)MACH = .70

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(CA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

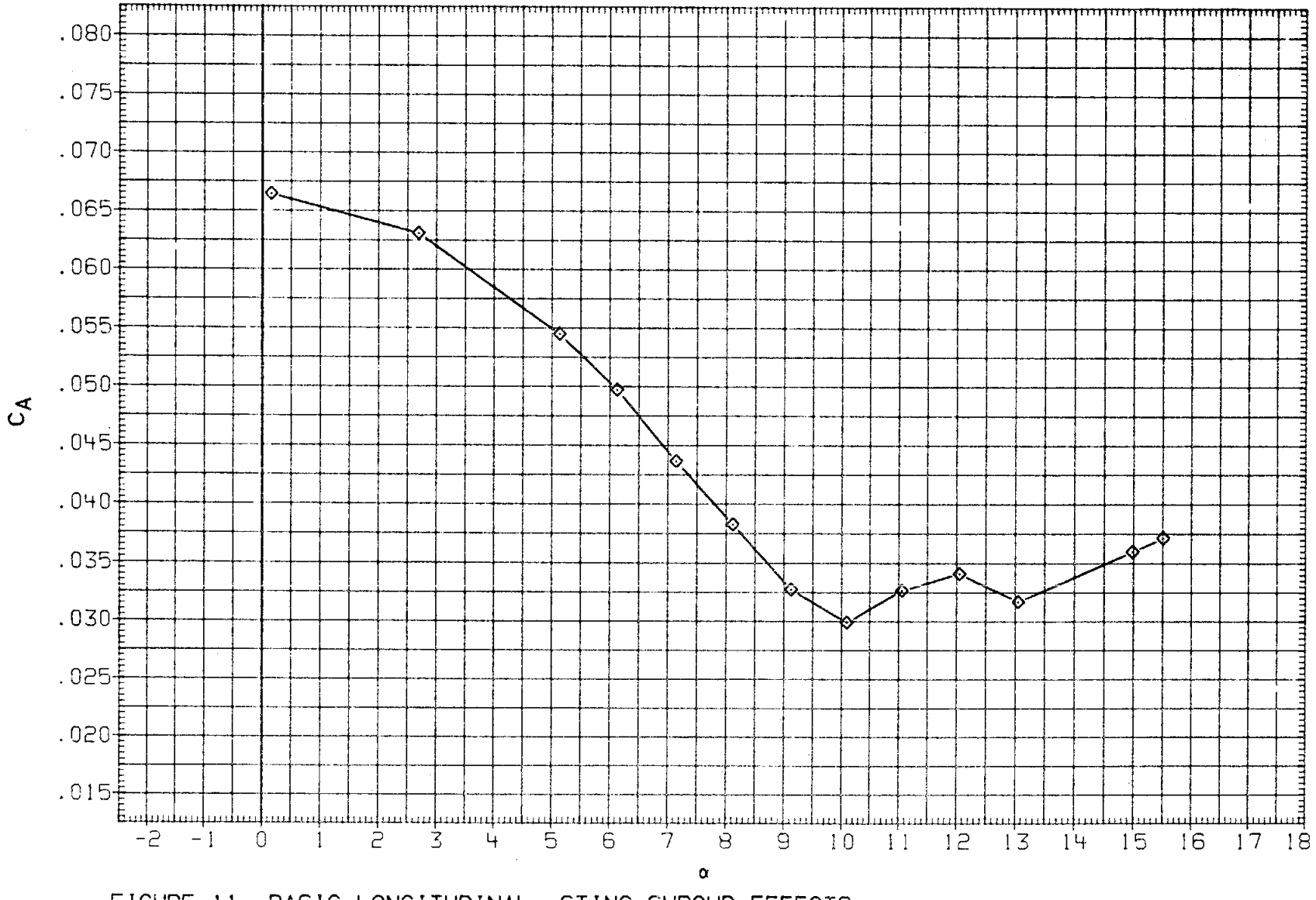

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(B)MACH = .70

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

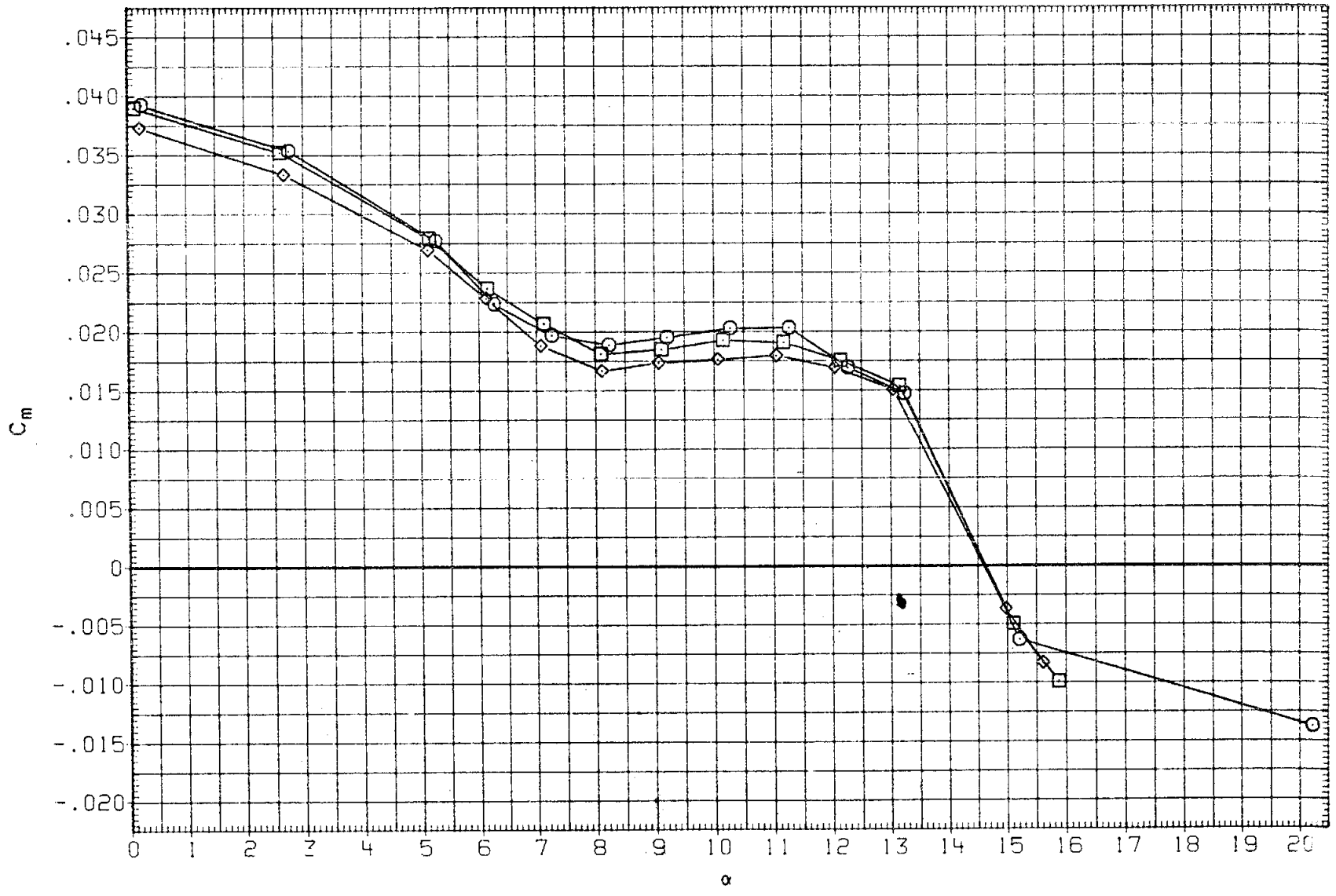

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(C)MACH = .30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

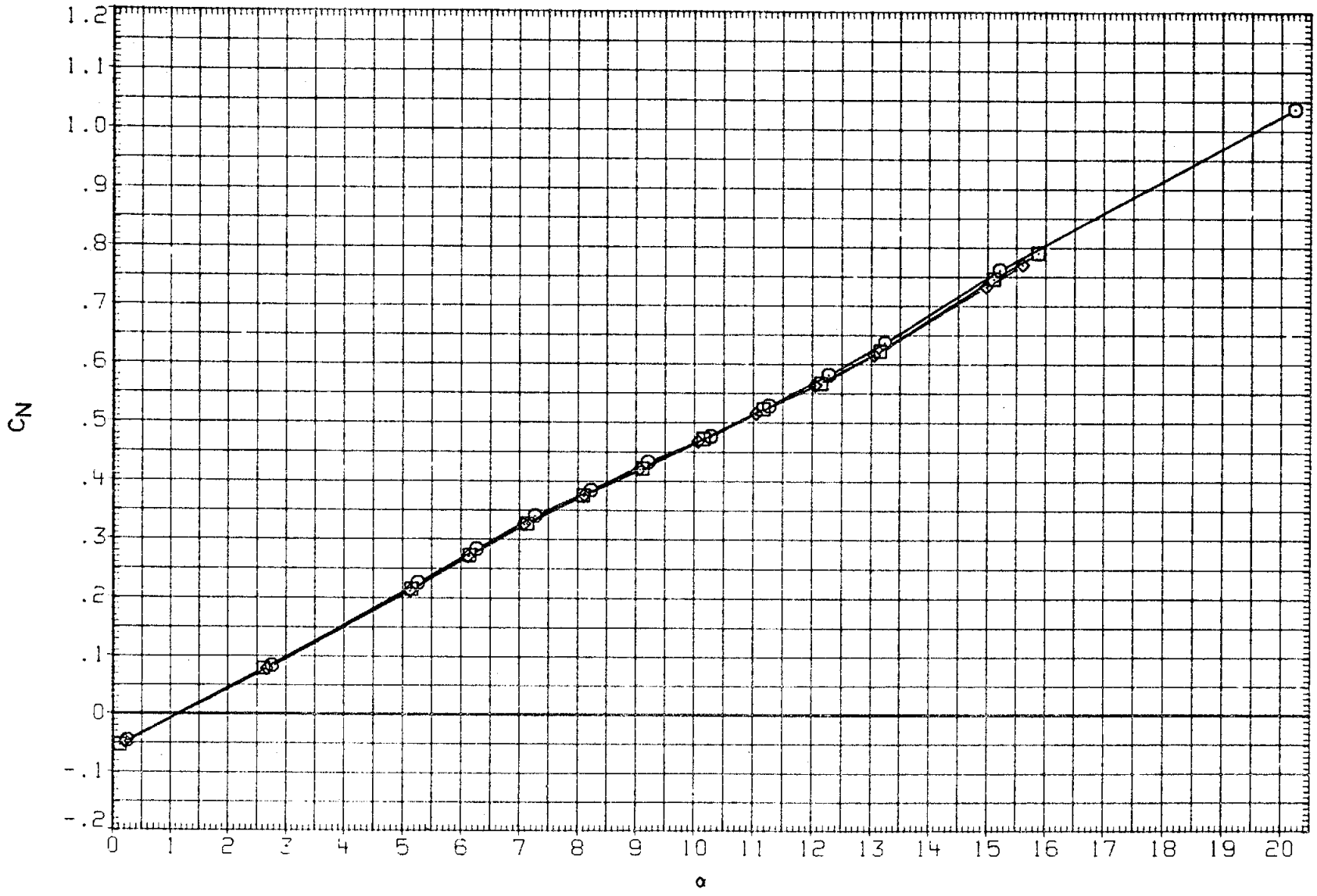

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(C)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

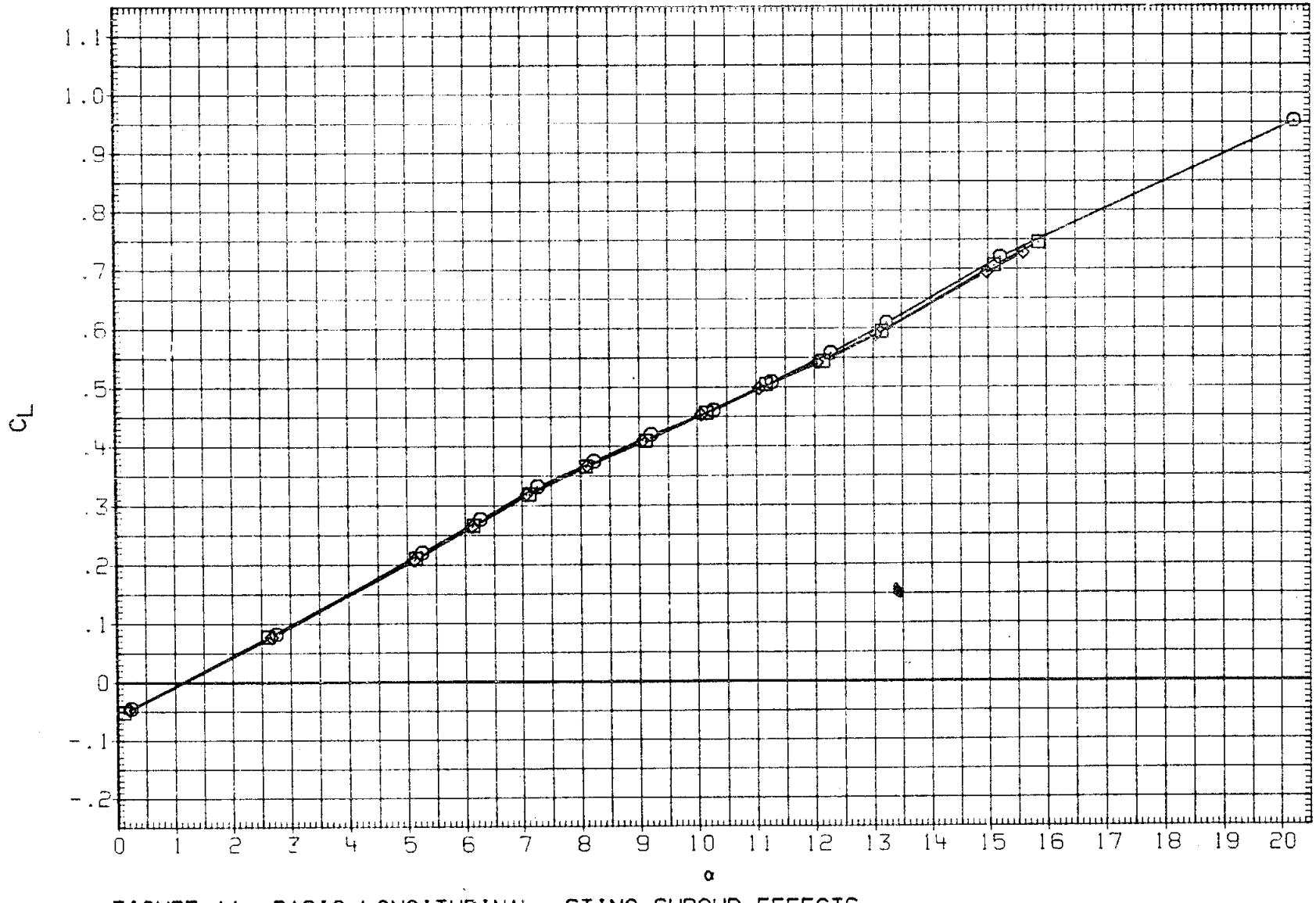

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(C)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

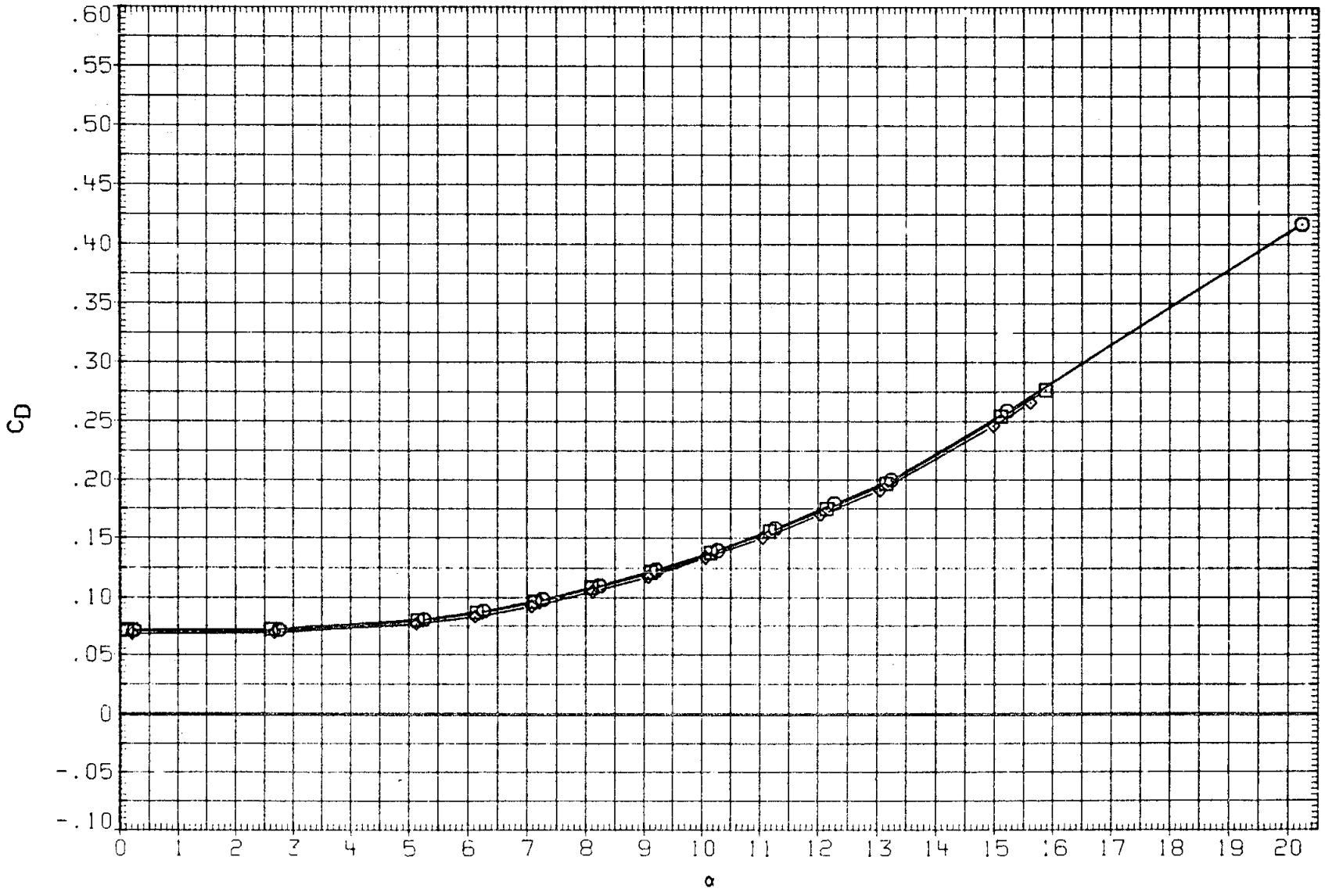

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(C)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

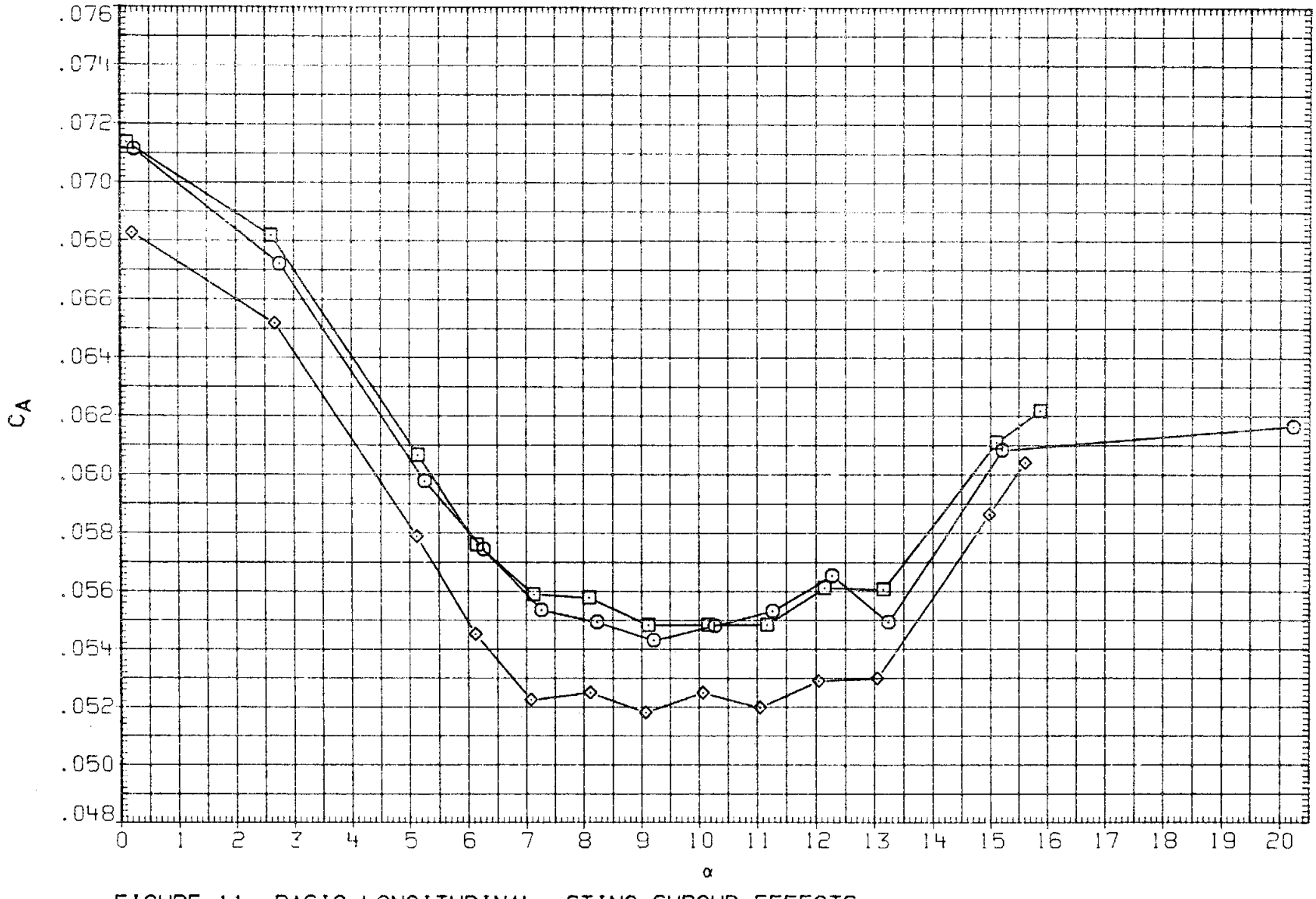

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(C)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

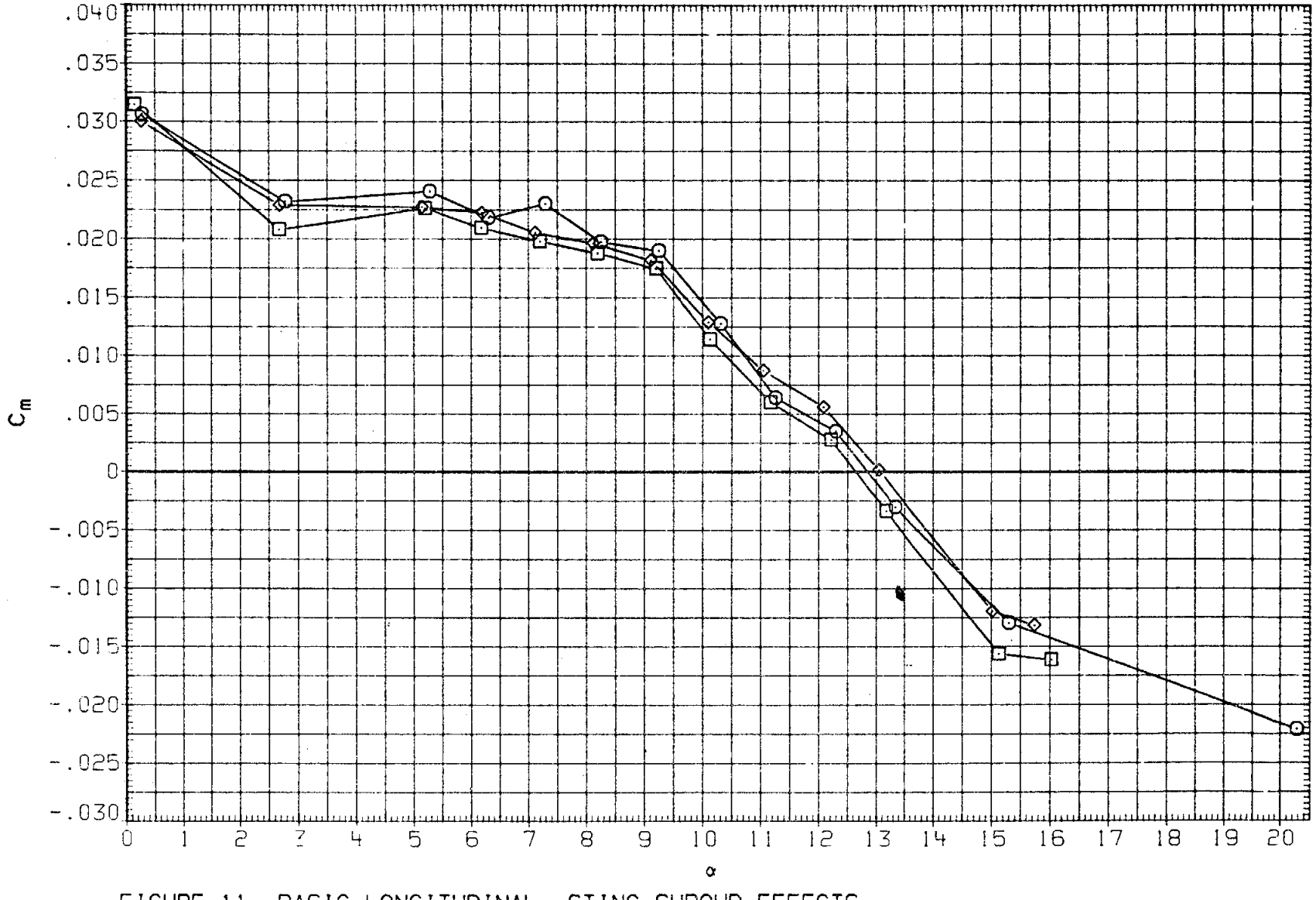

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(D)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

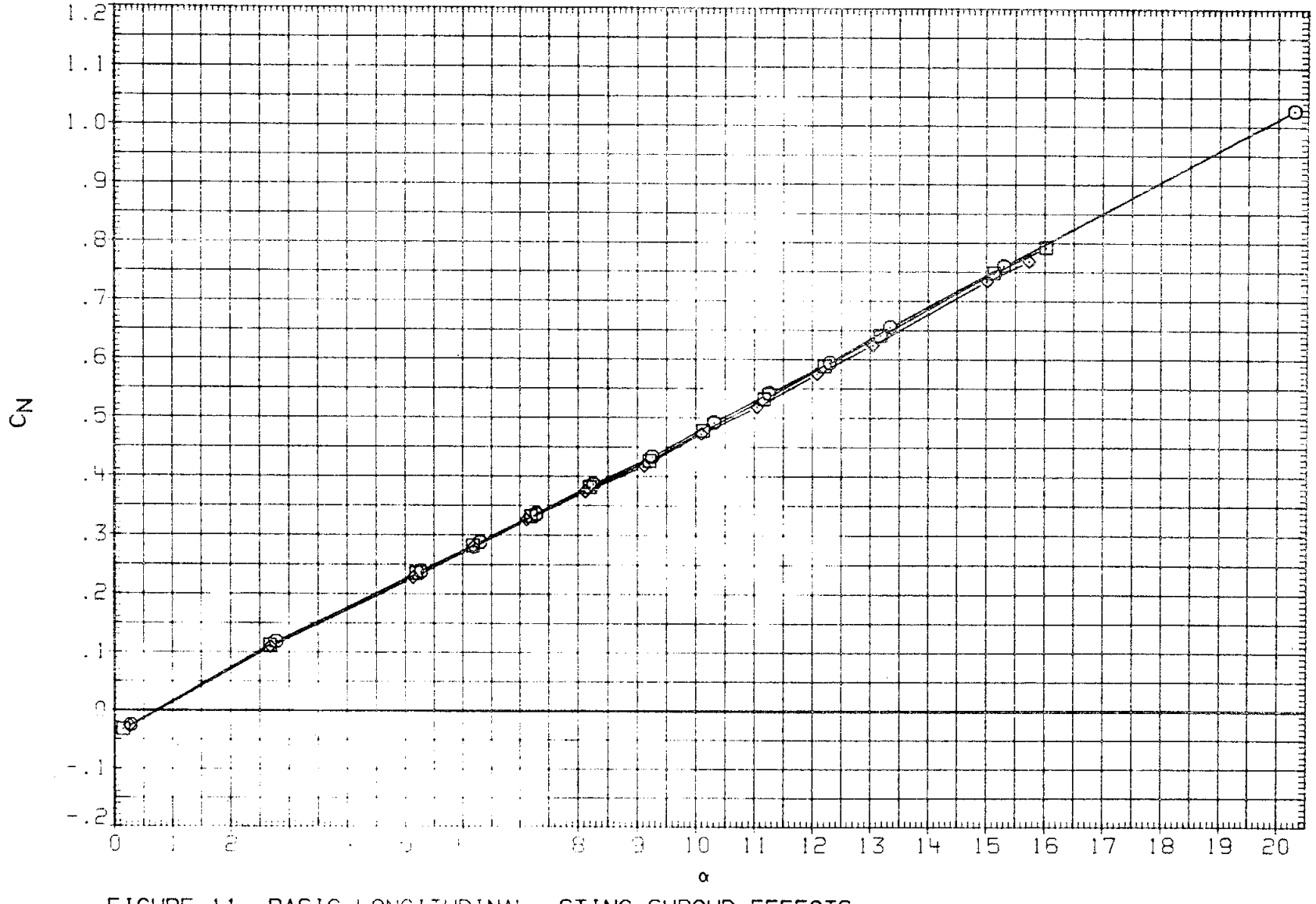

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(D)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

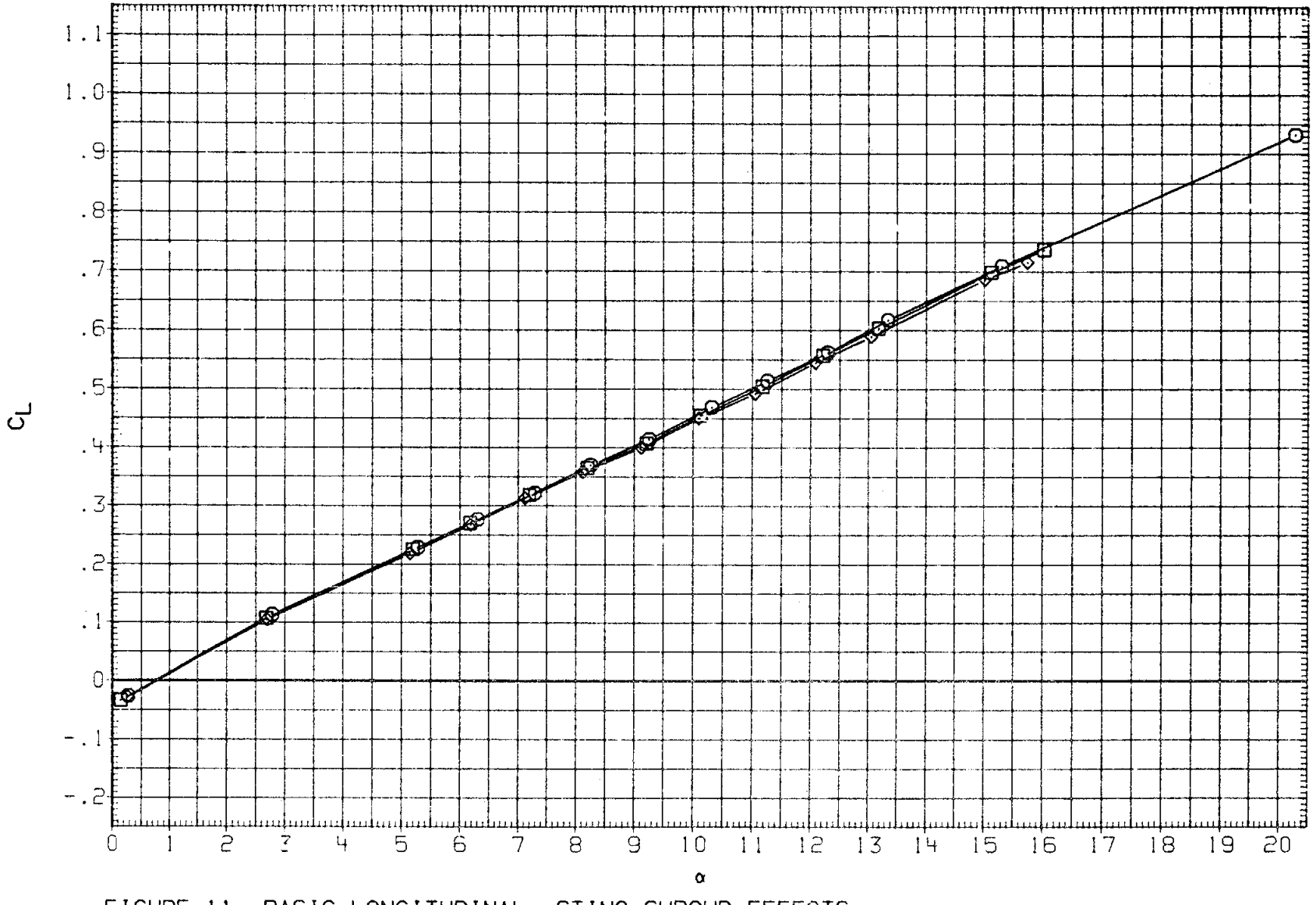

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(D)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

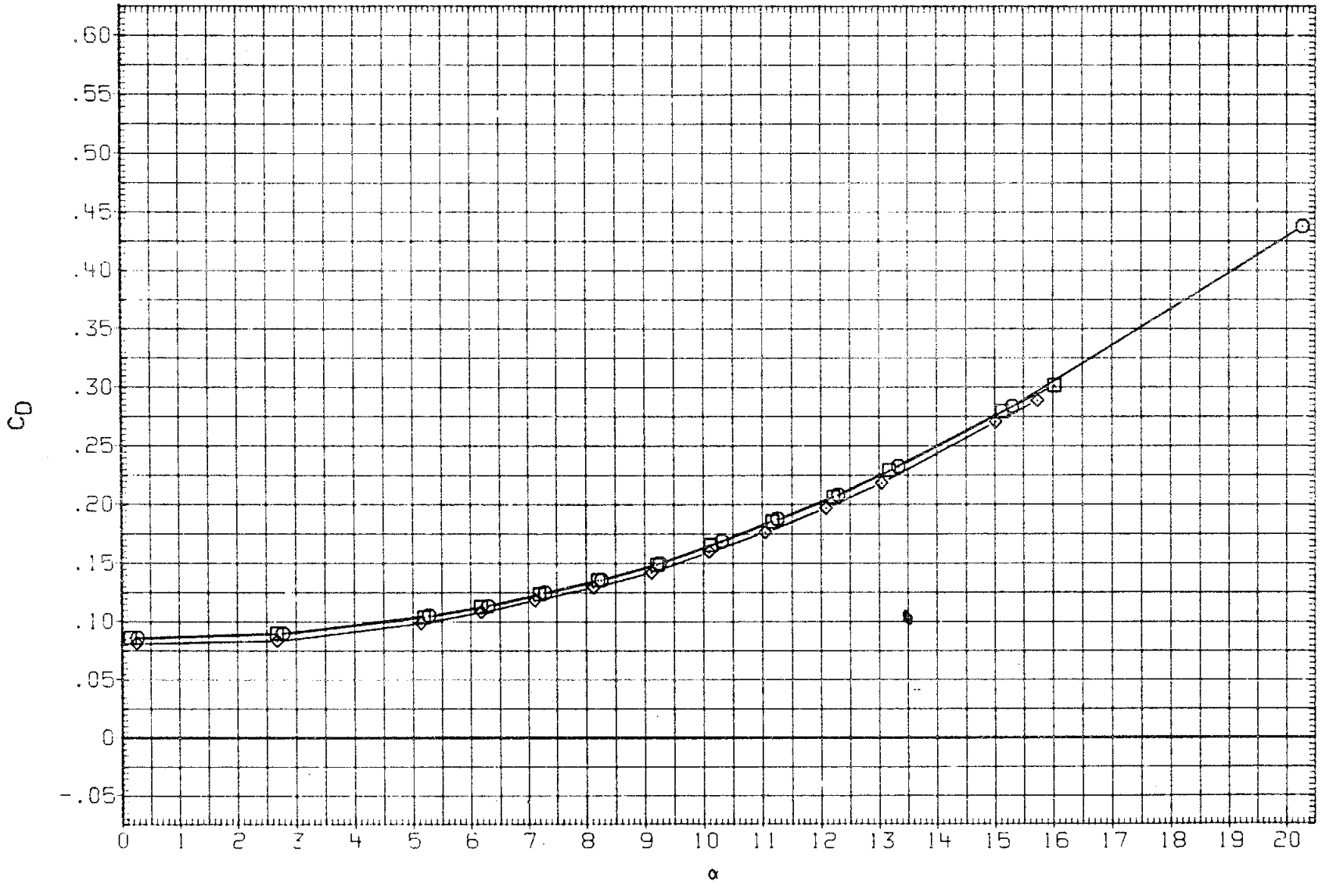

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(D)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

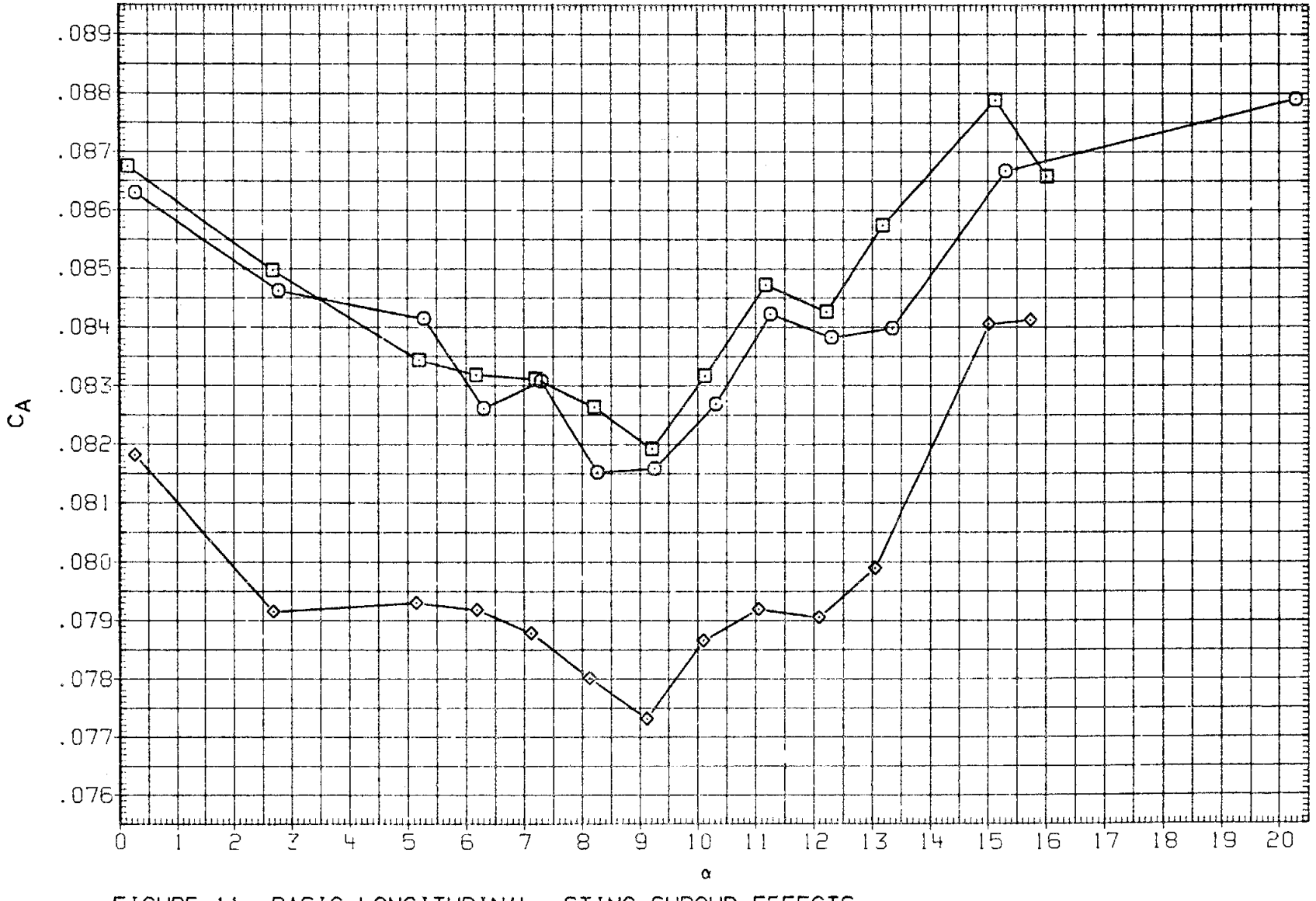

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(D)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

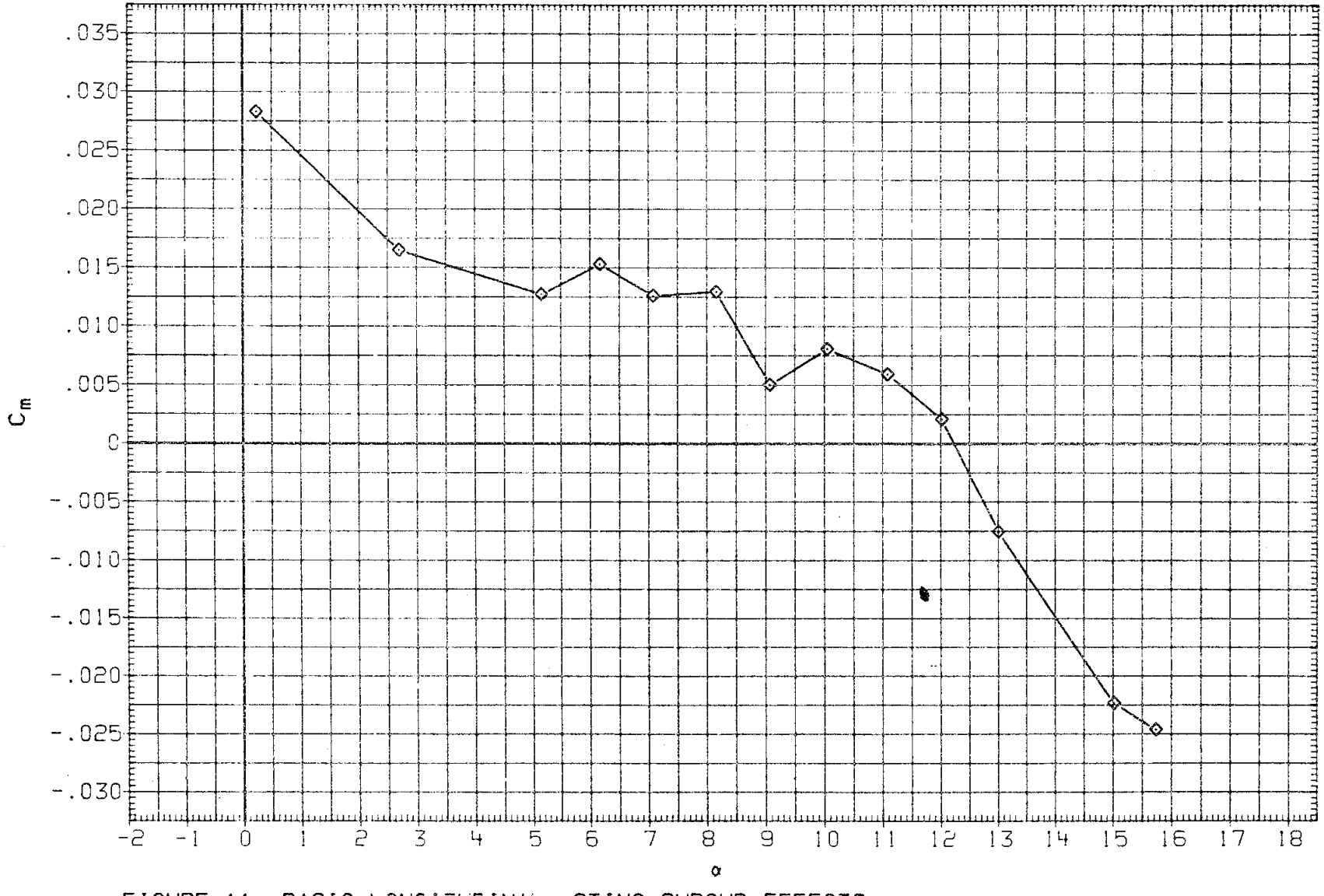

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(E)MACH = .92

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

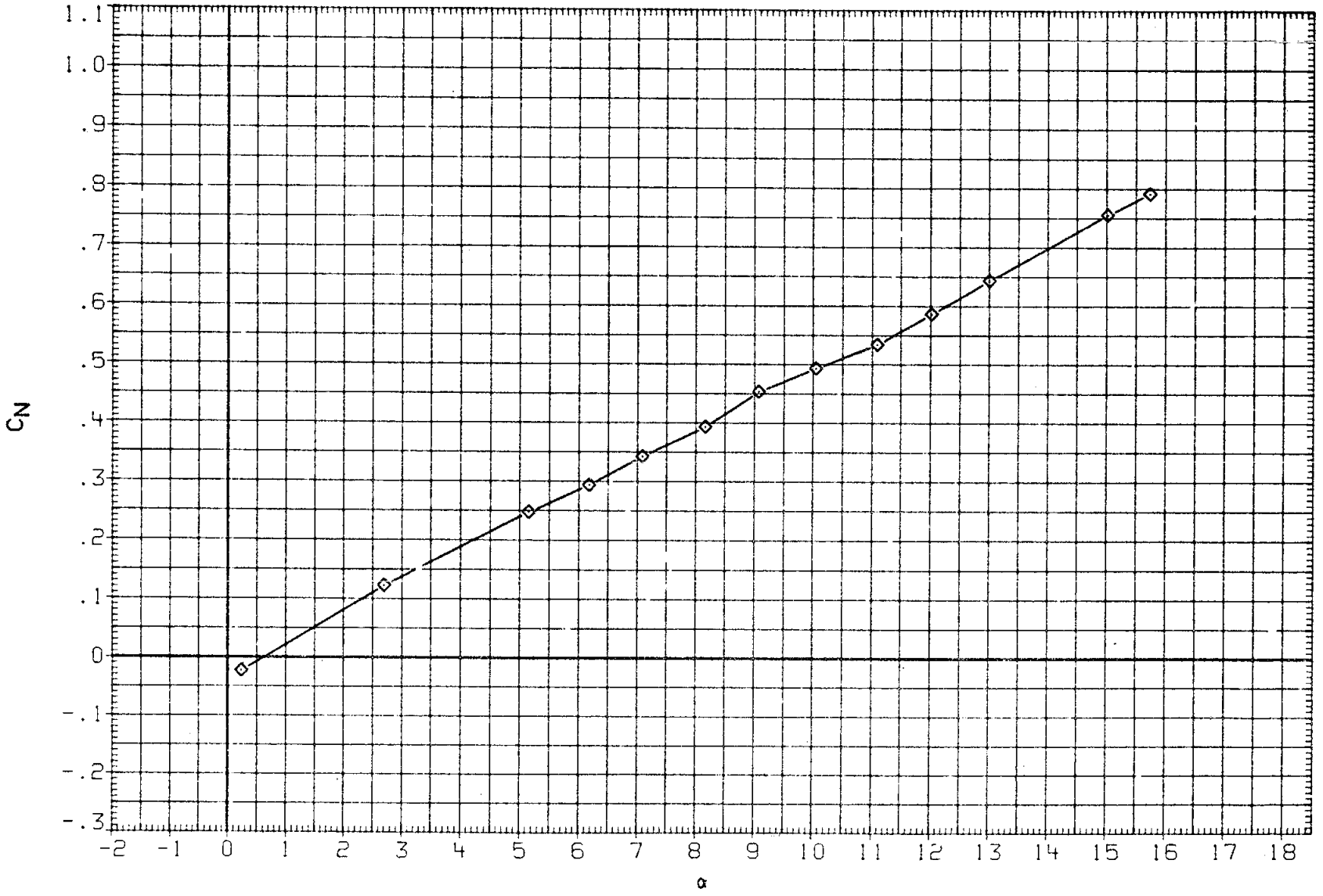

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(E)MACH = .92

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

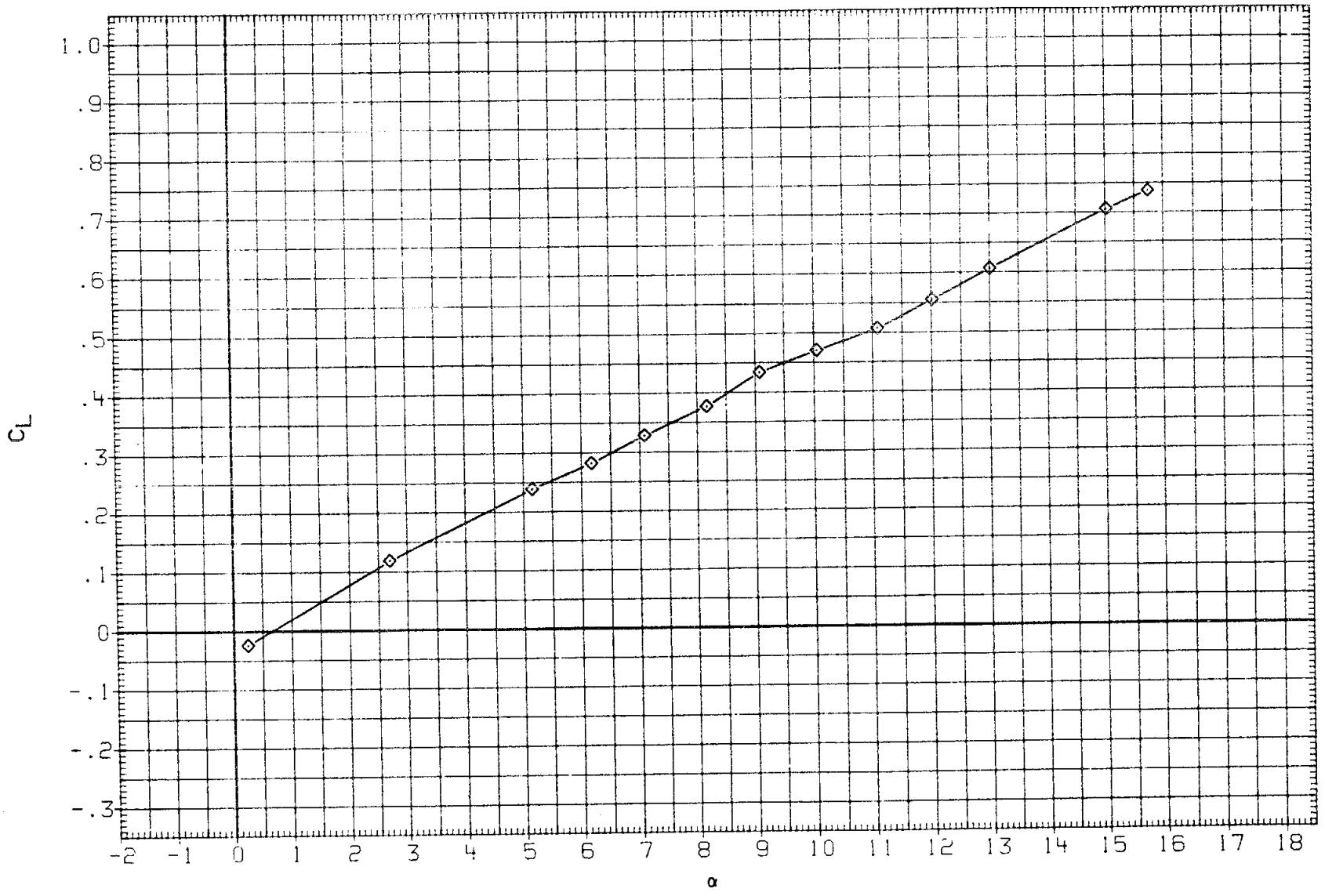

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(E)MACH = .92

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRO	.000	.000	.000	.000	25.500	-.030	.000

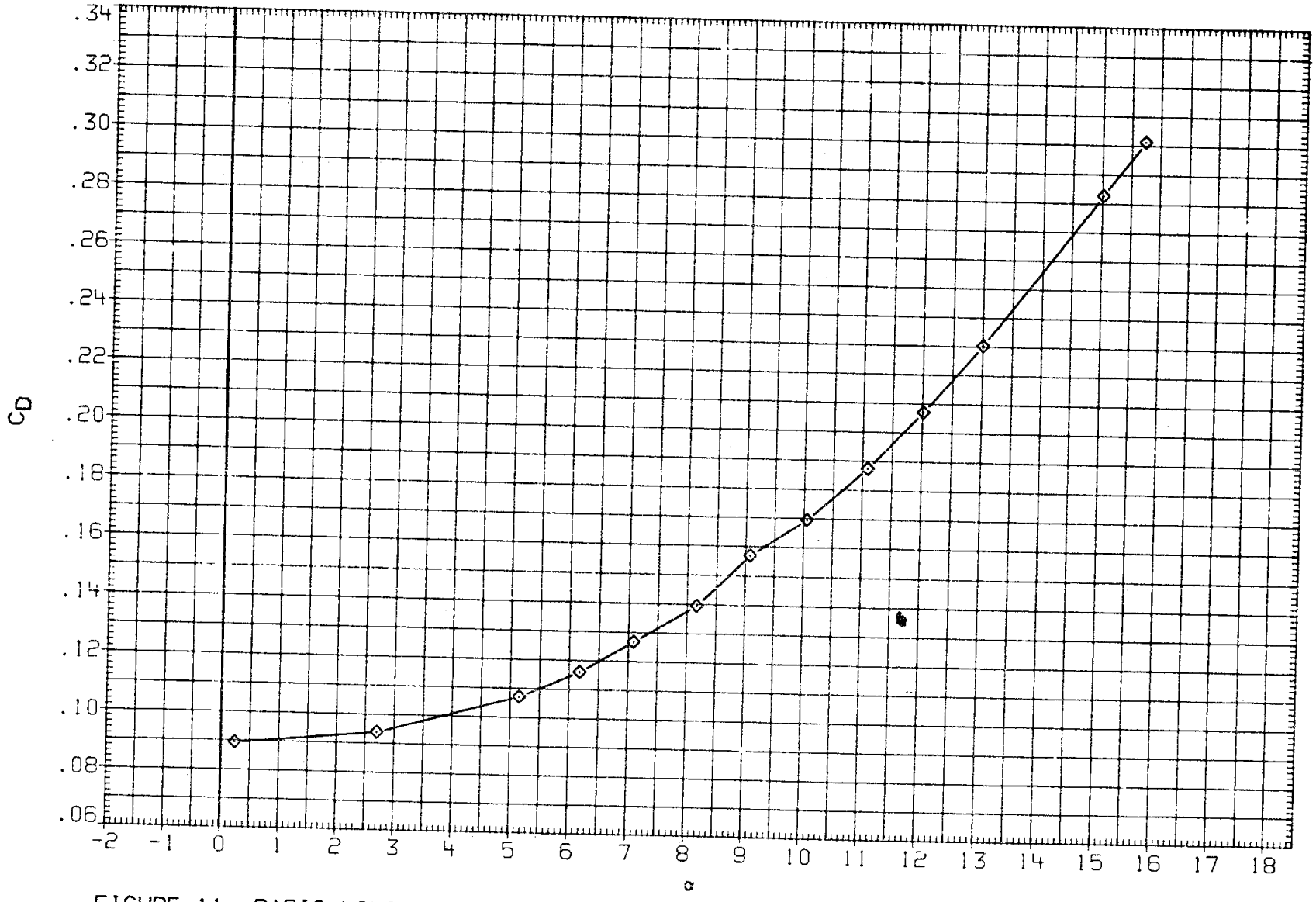

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(E)MACH = .92

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

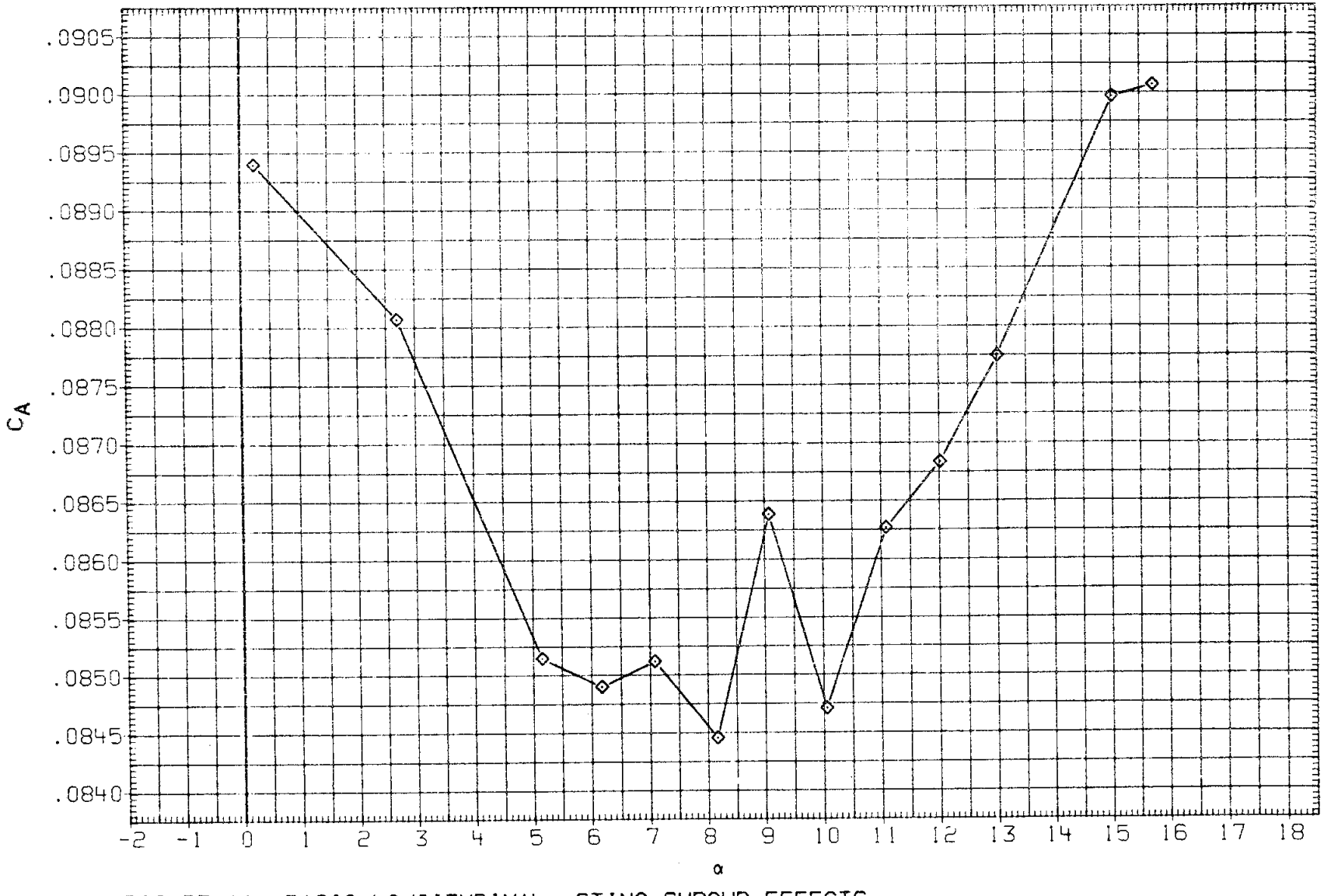

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(E)MACH = .92

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

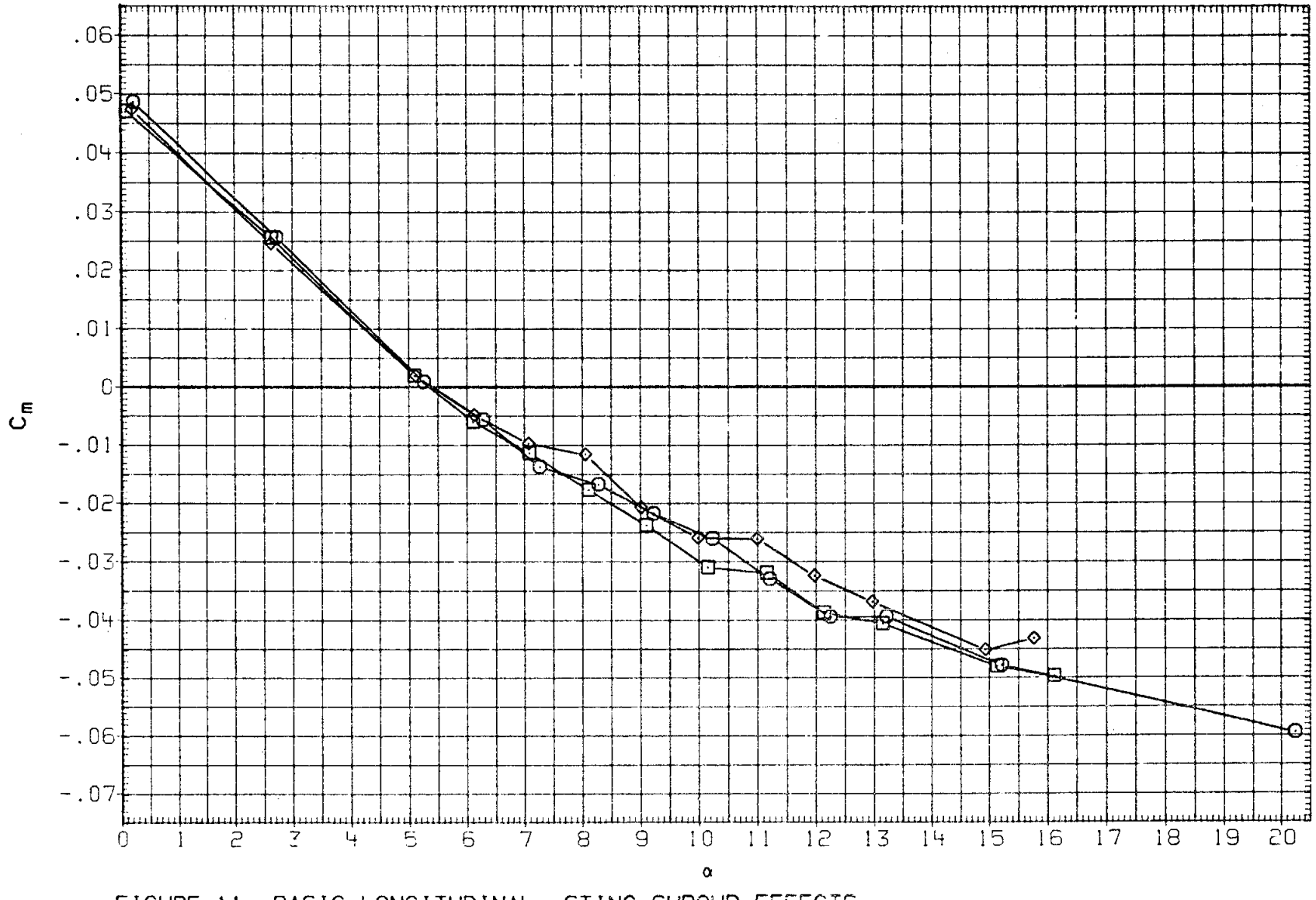

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(F)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

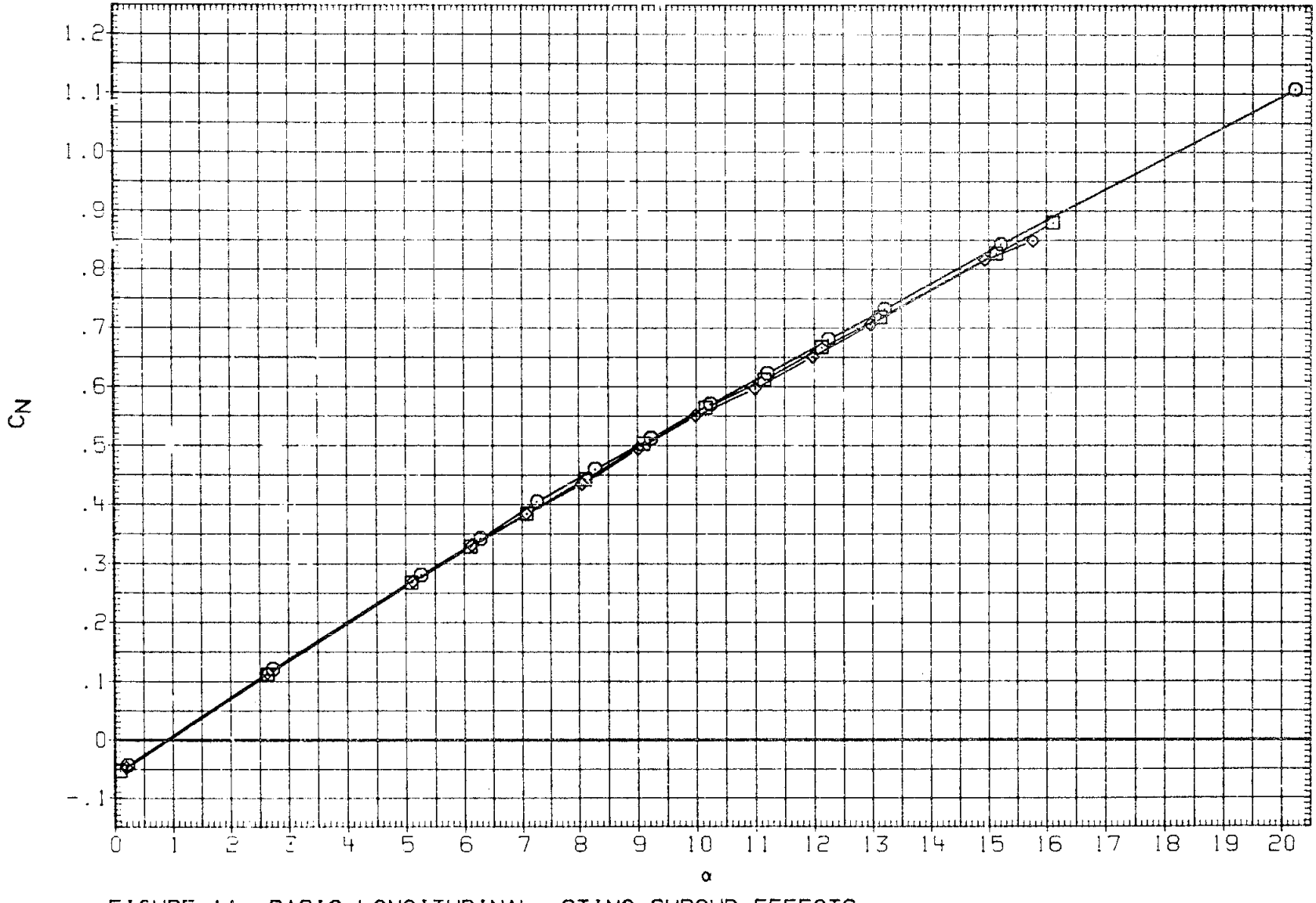

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(F)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

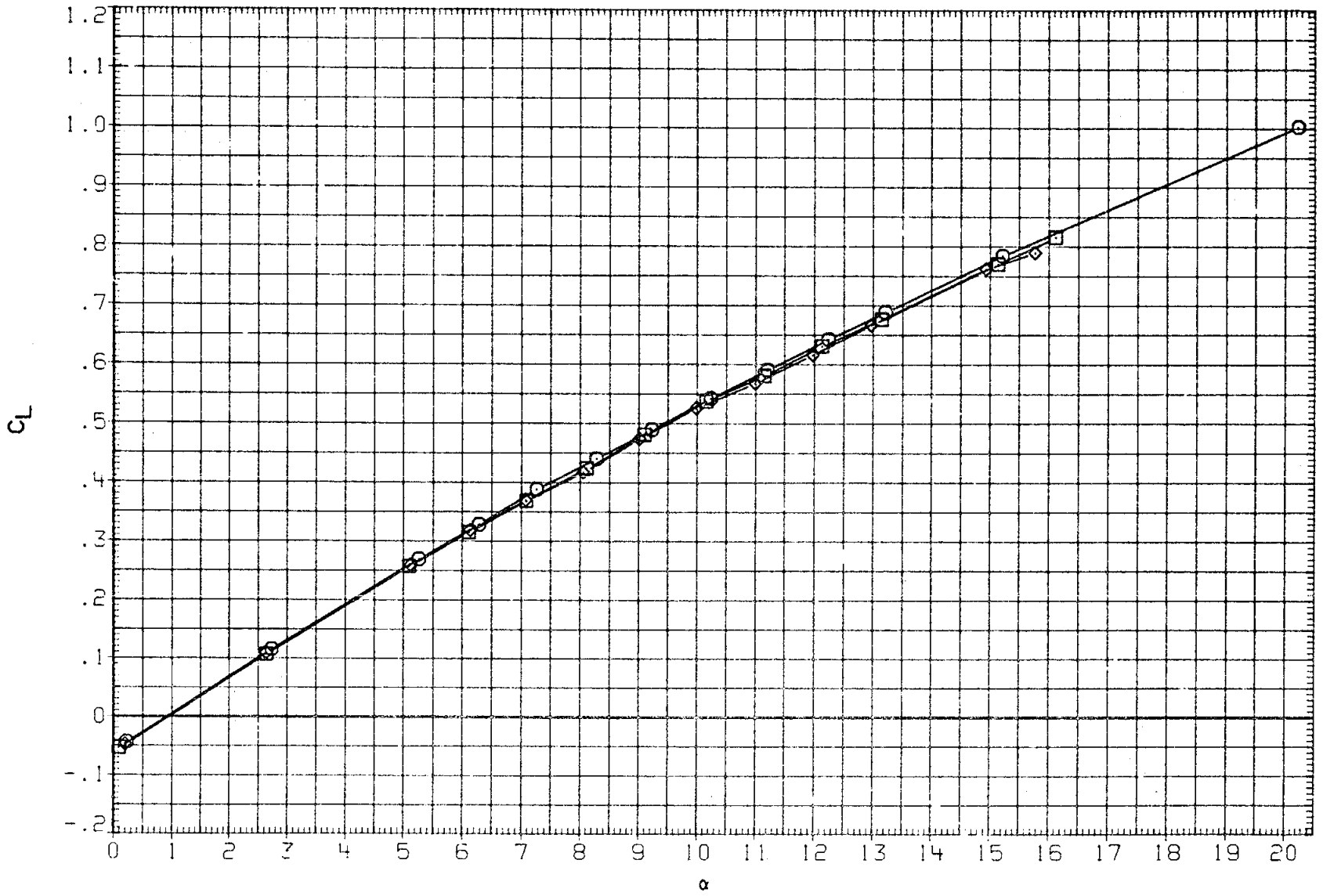

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(F)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

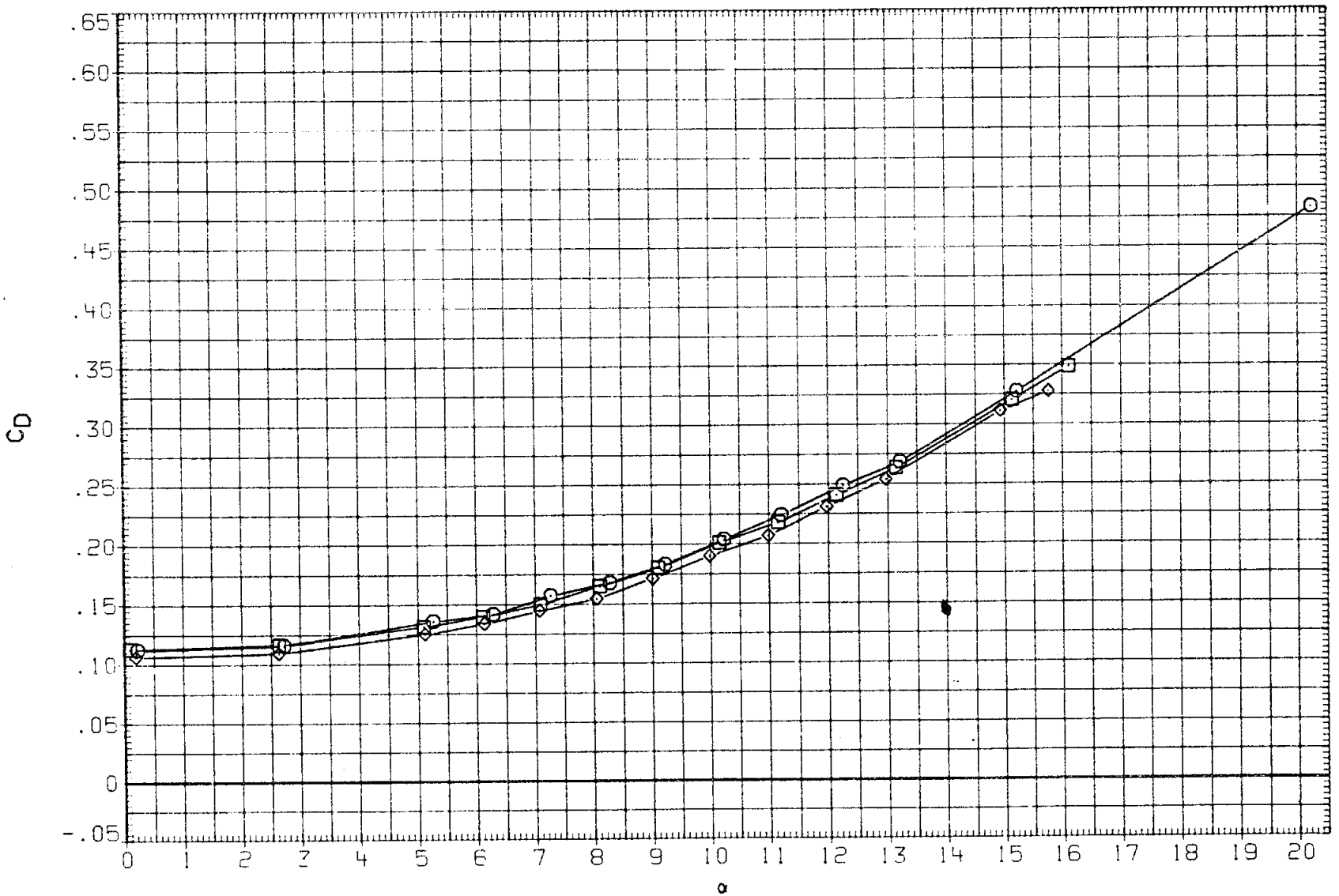

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(F)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

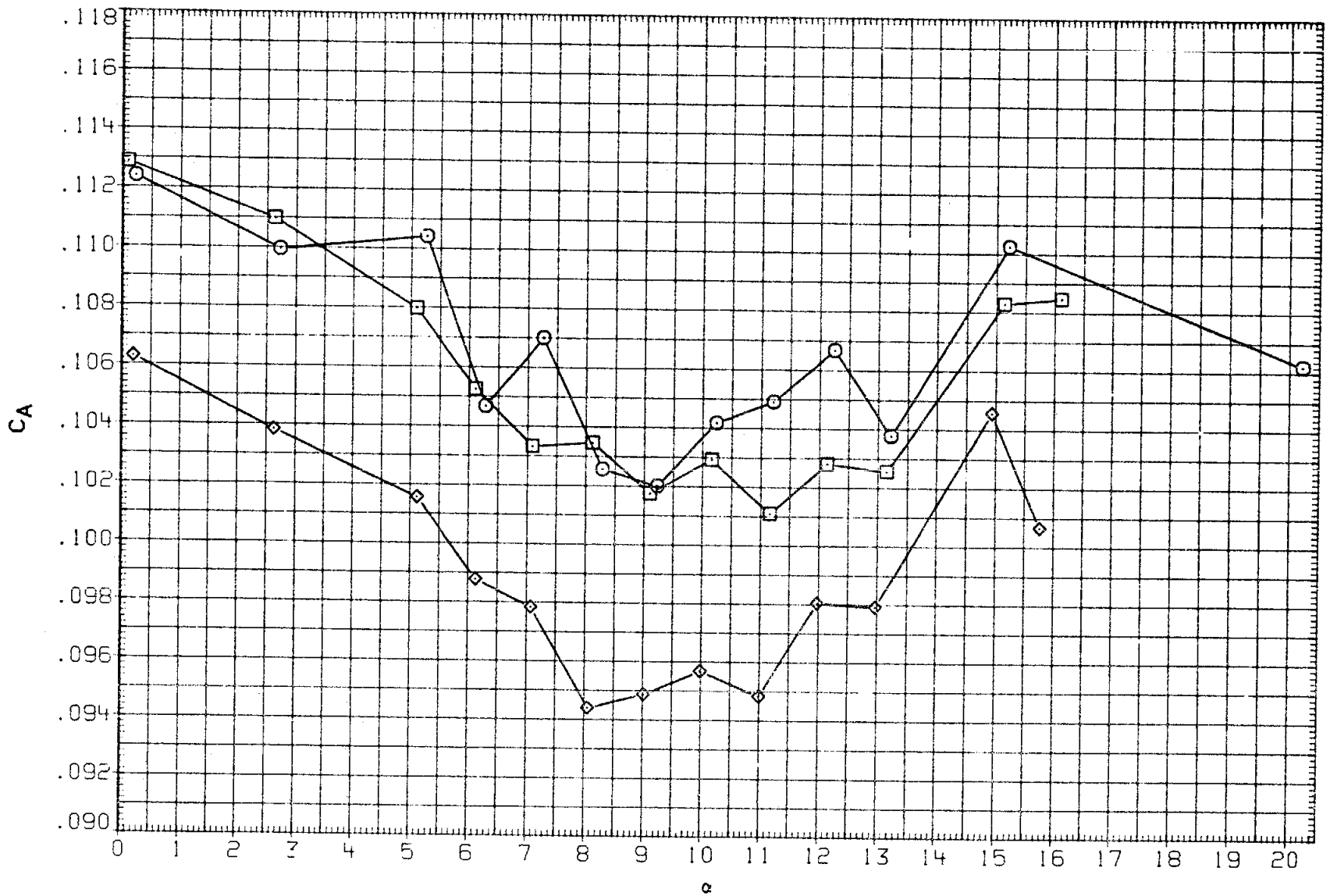

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(F)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

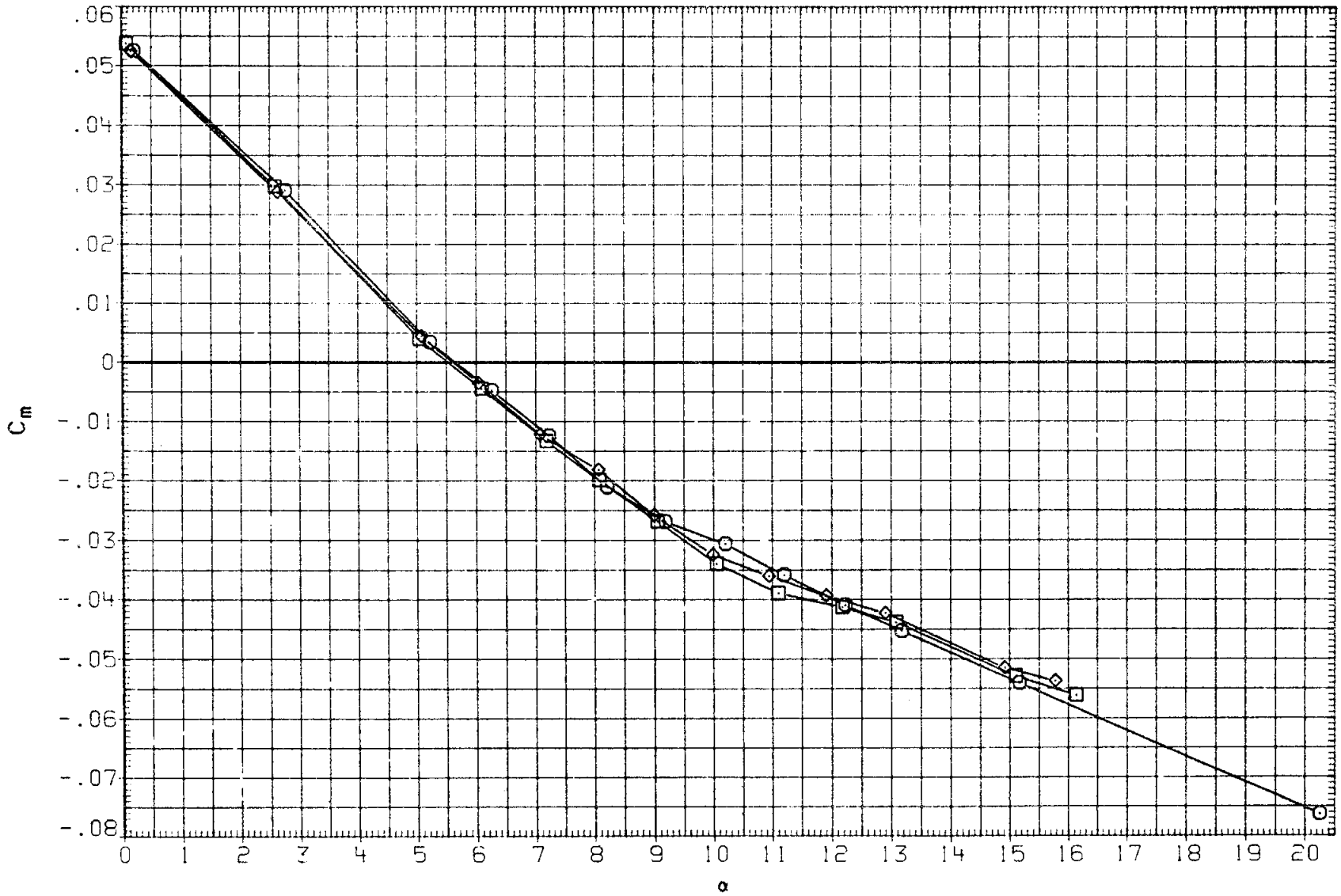

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(G)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

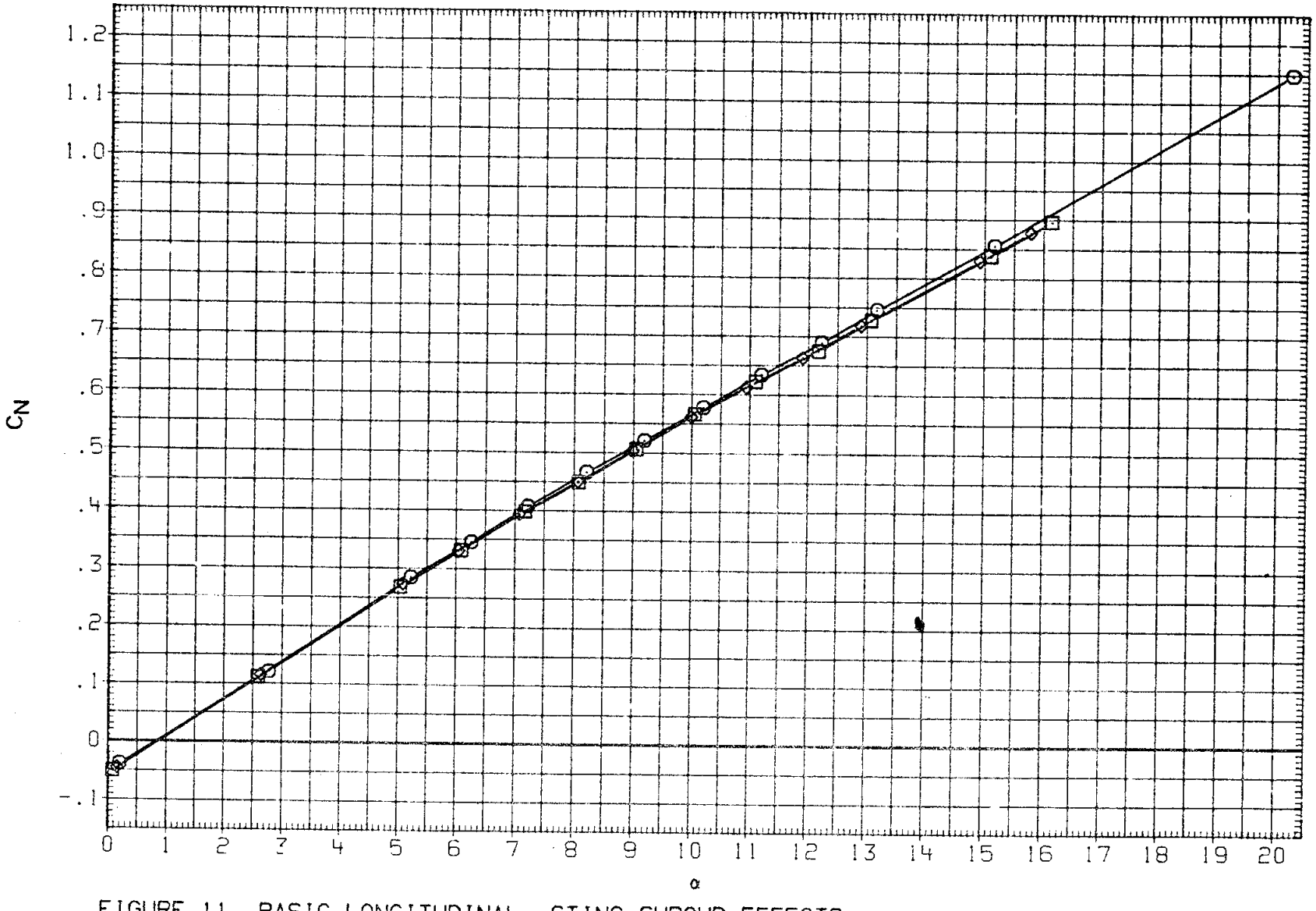

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(G)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

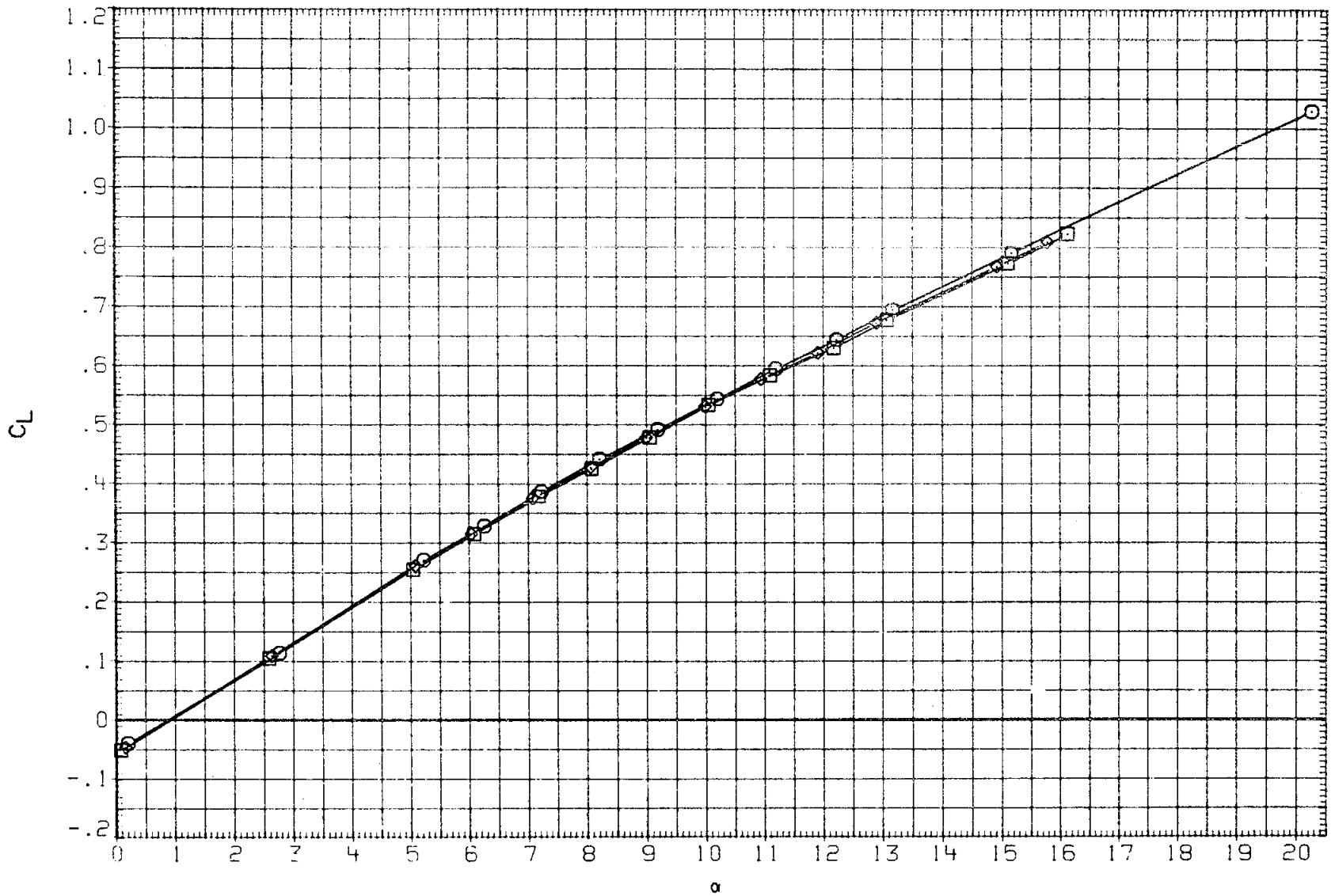

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(G)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

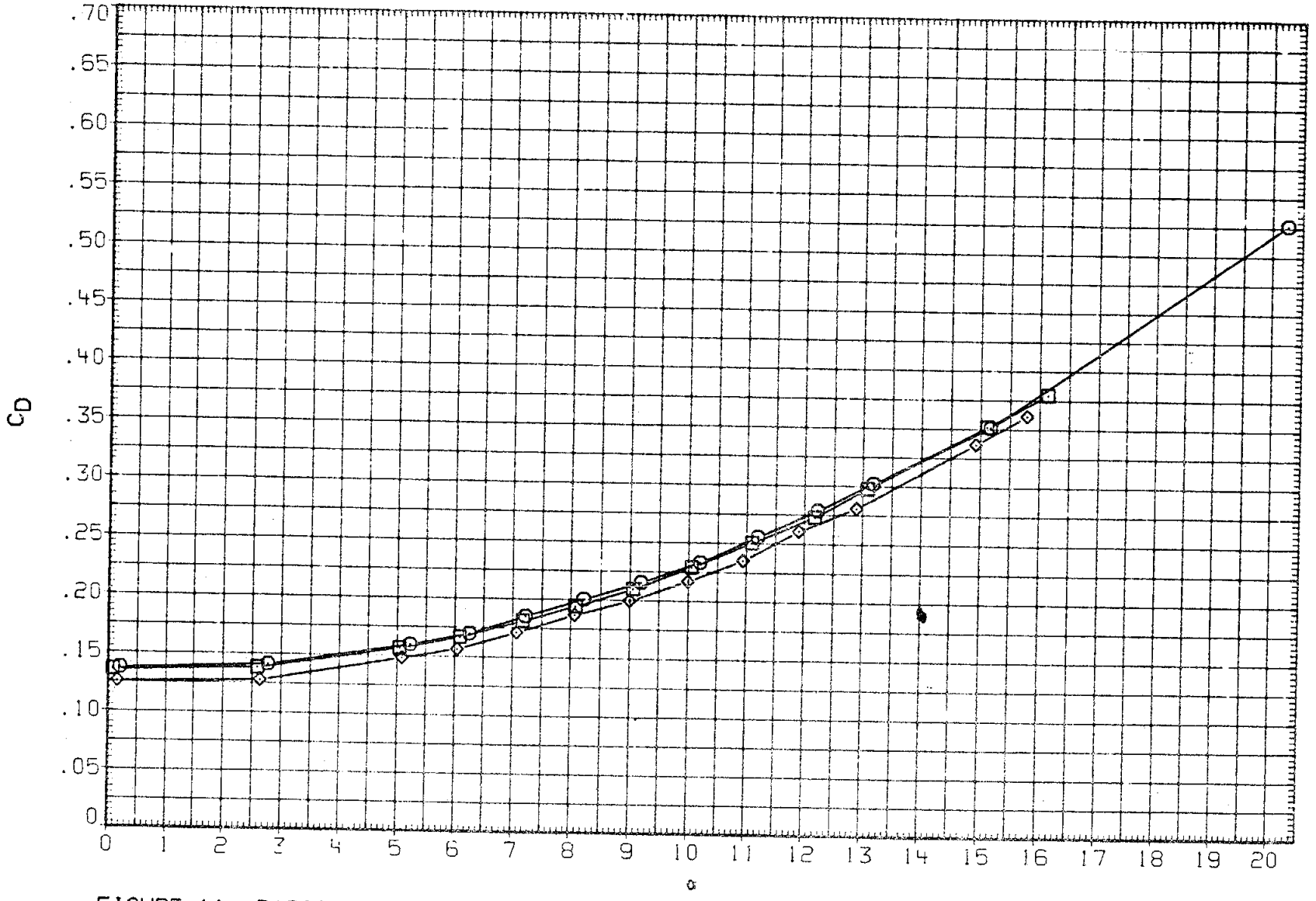

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(G)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

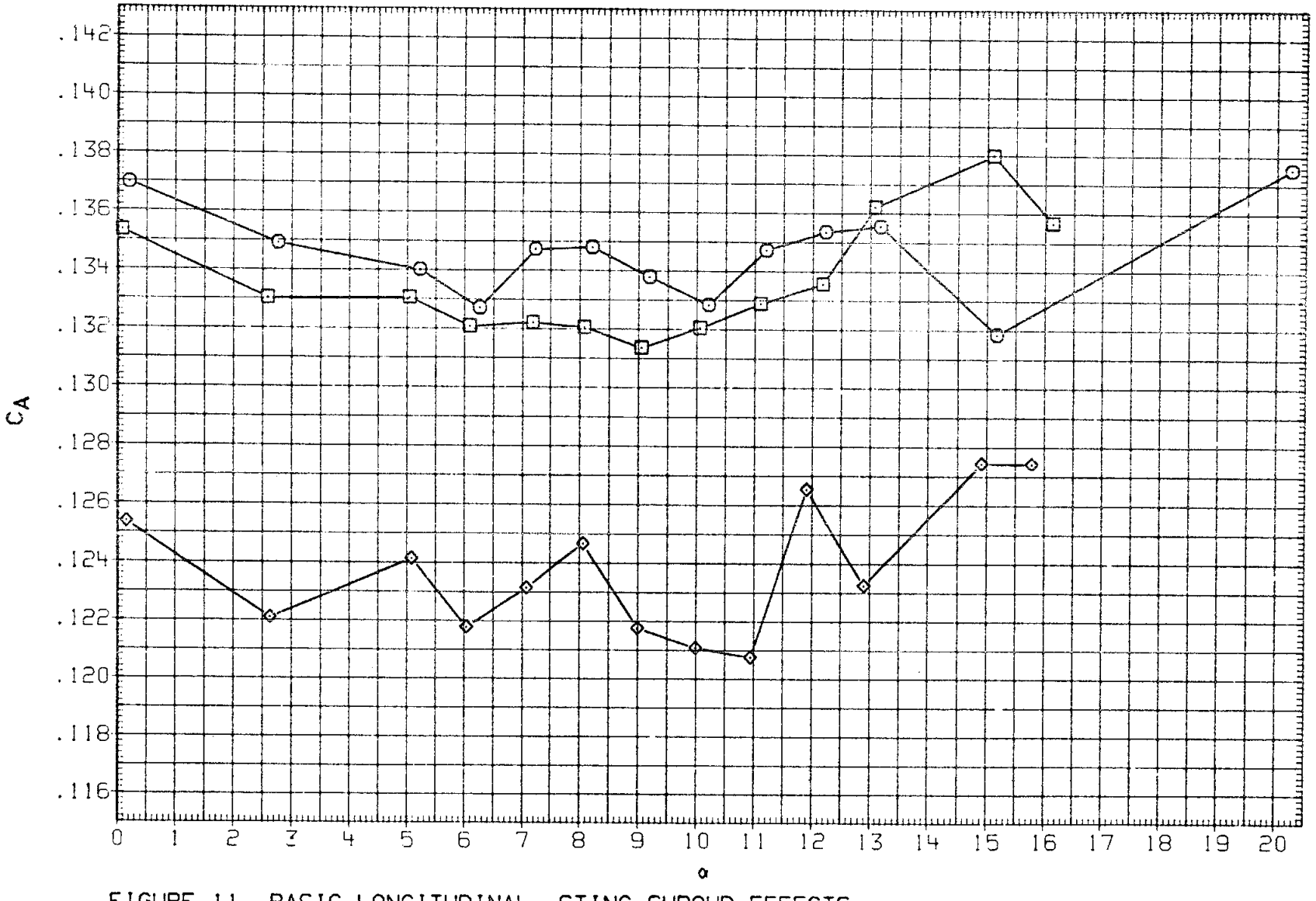

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(G)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

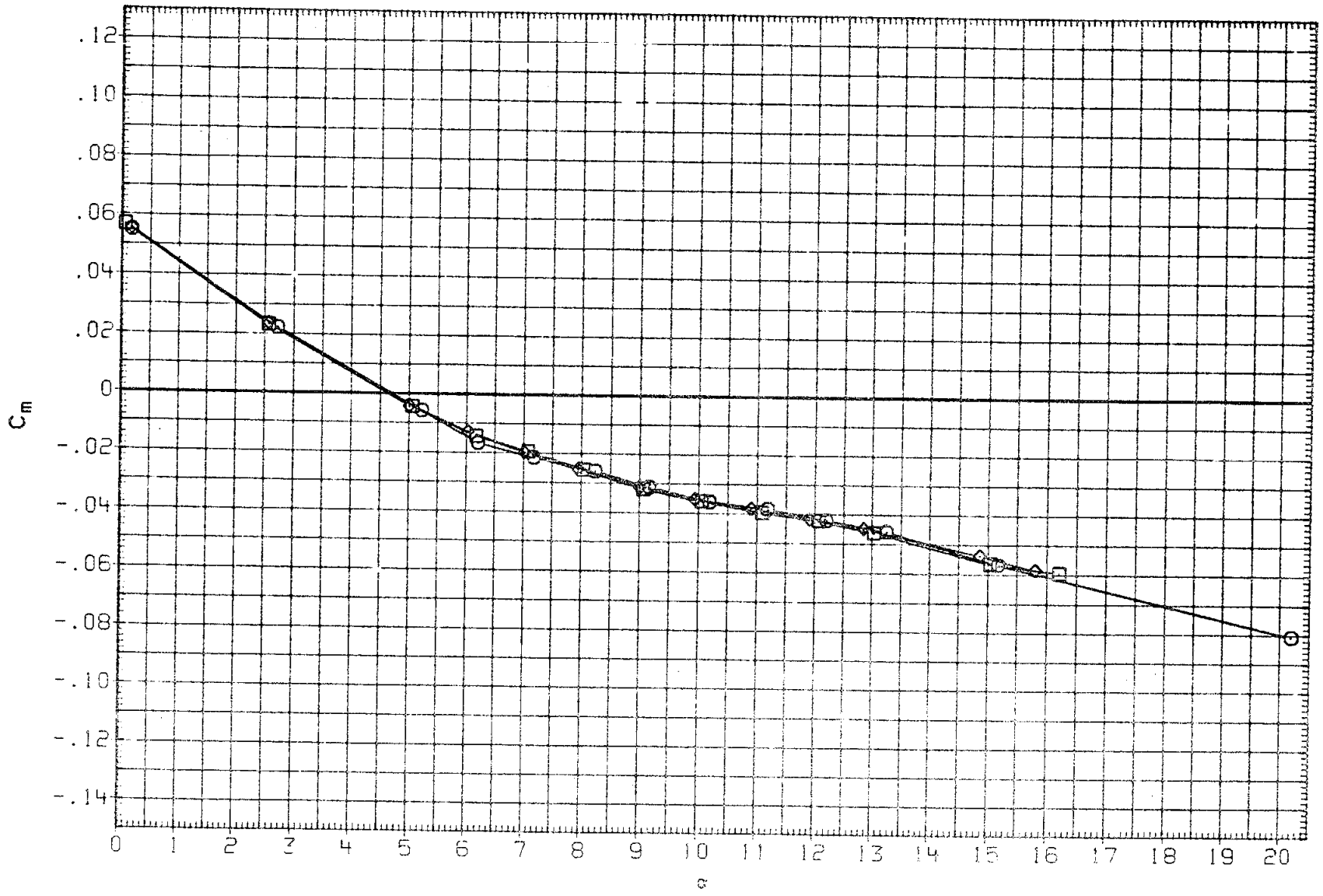

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(H)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

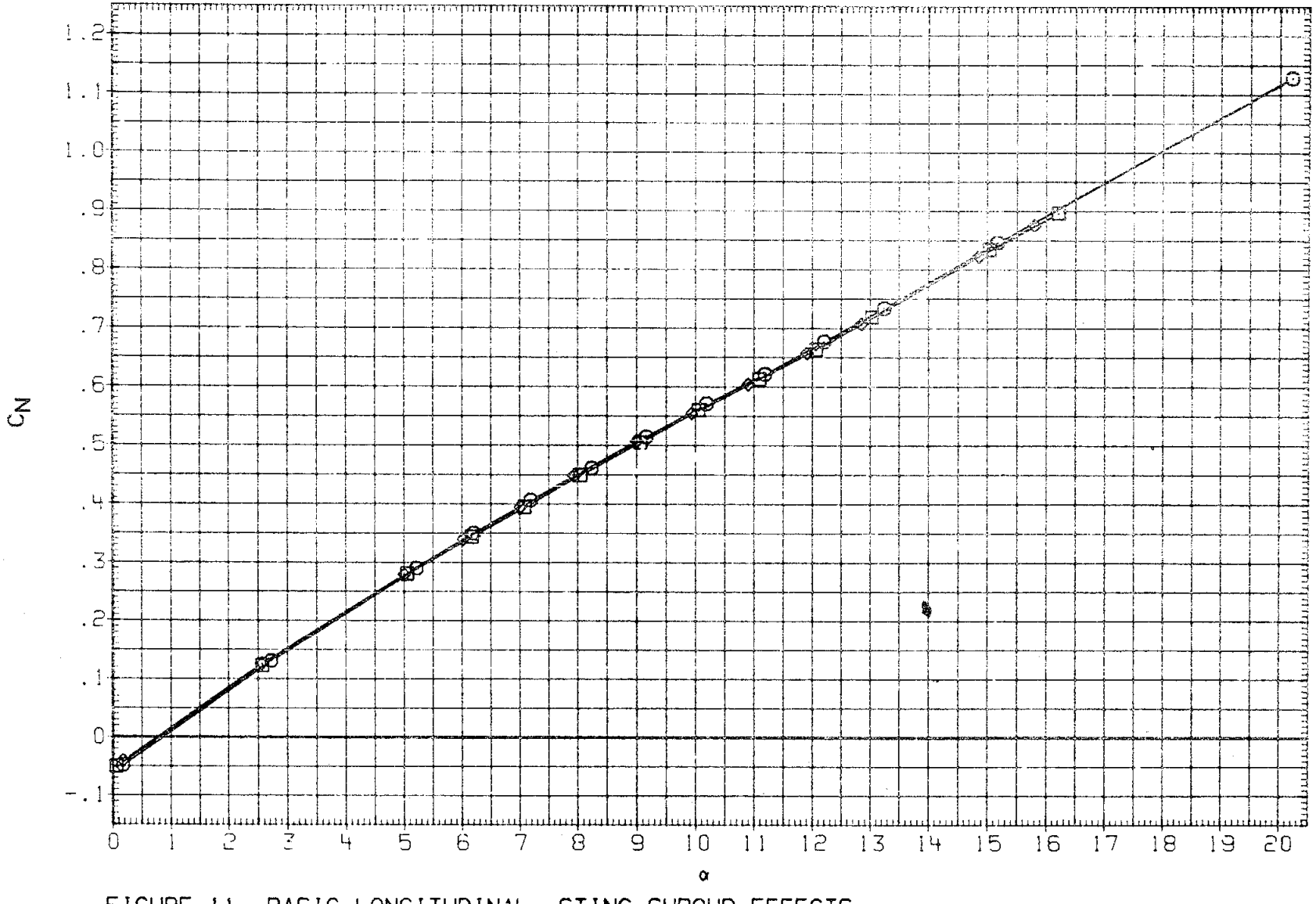

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(H)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

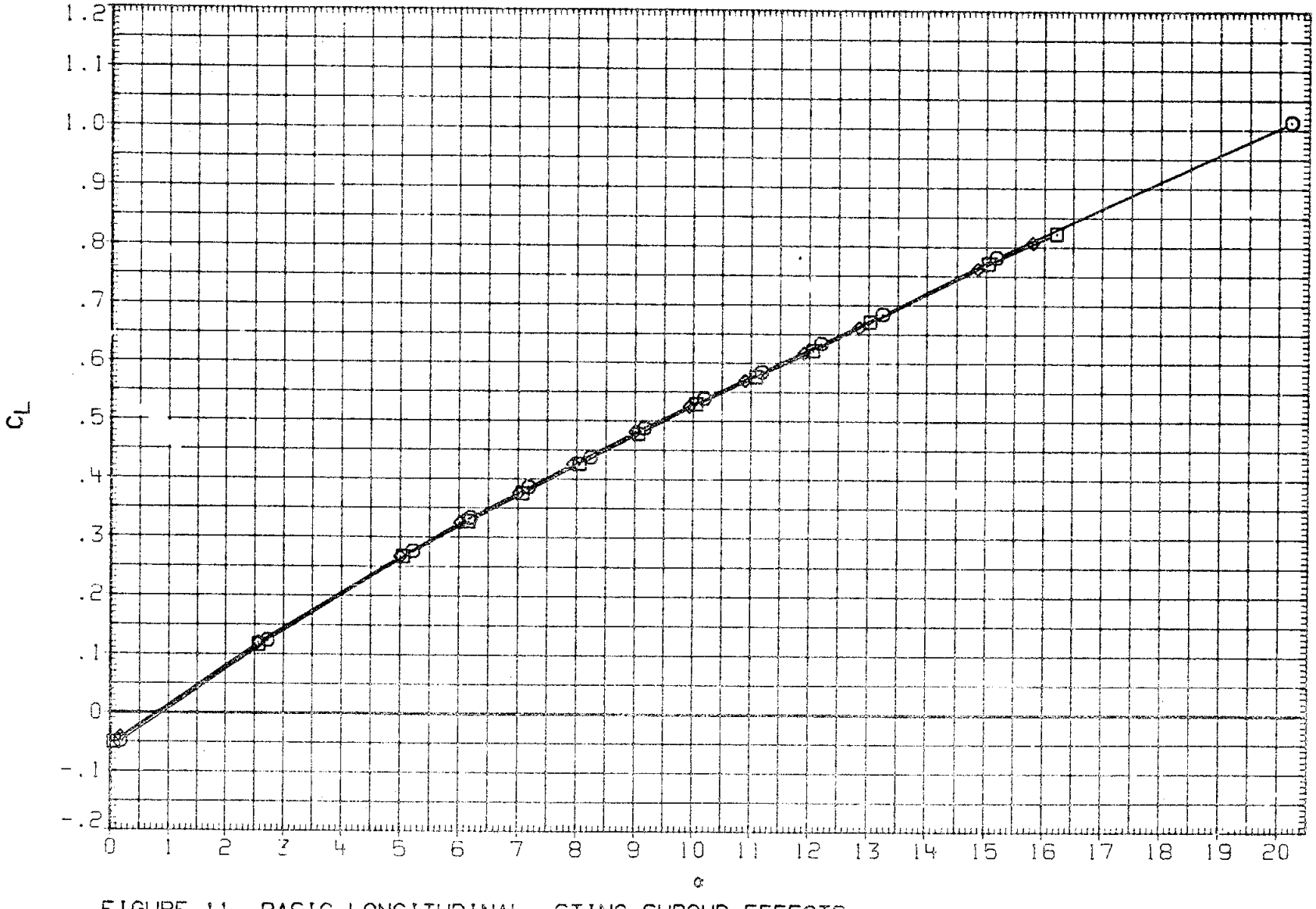

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(H)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(0A270B) 105-0 0°). STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

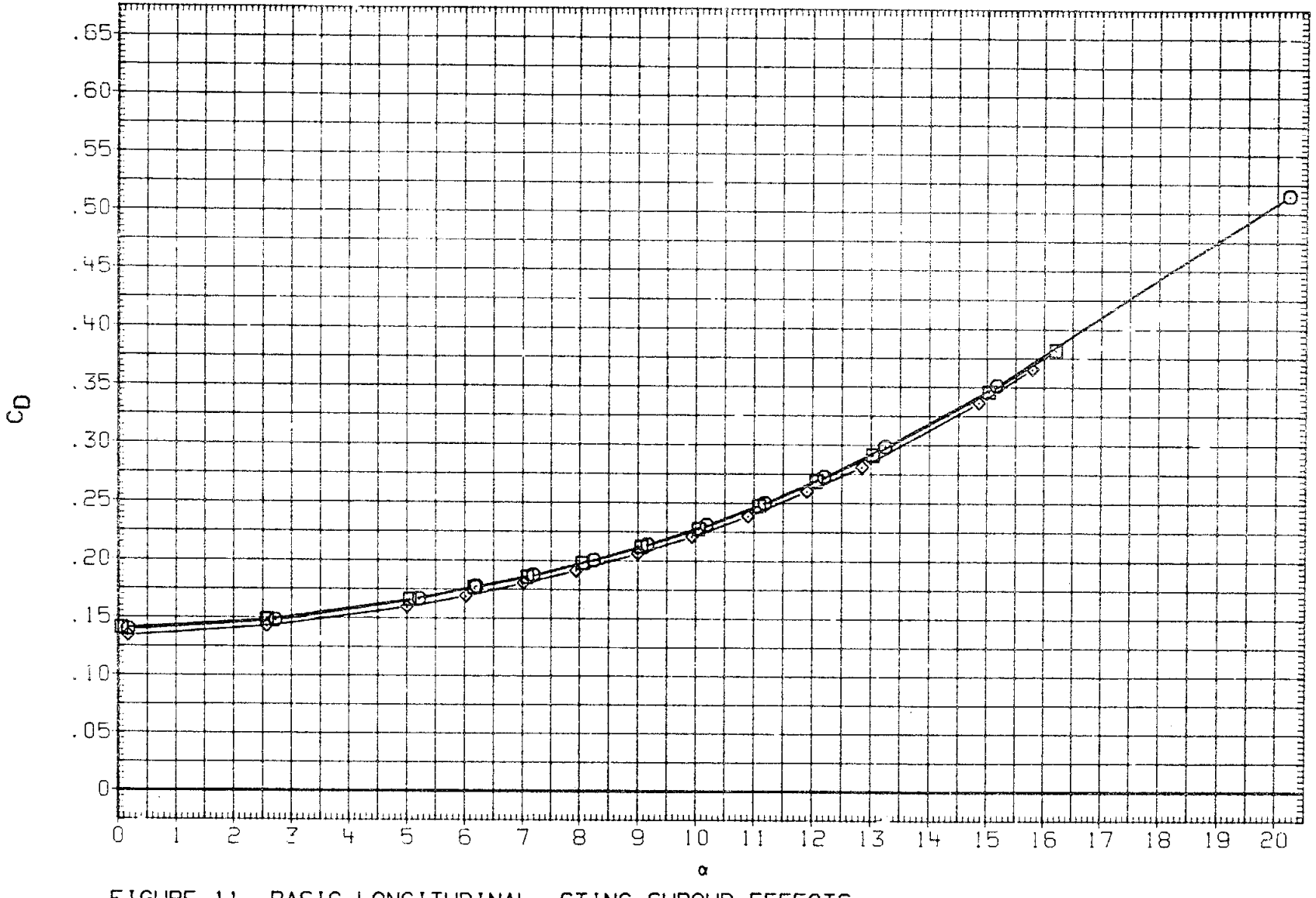

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(H)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

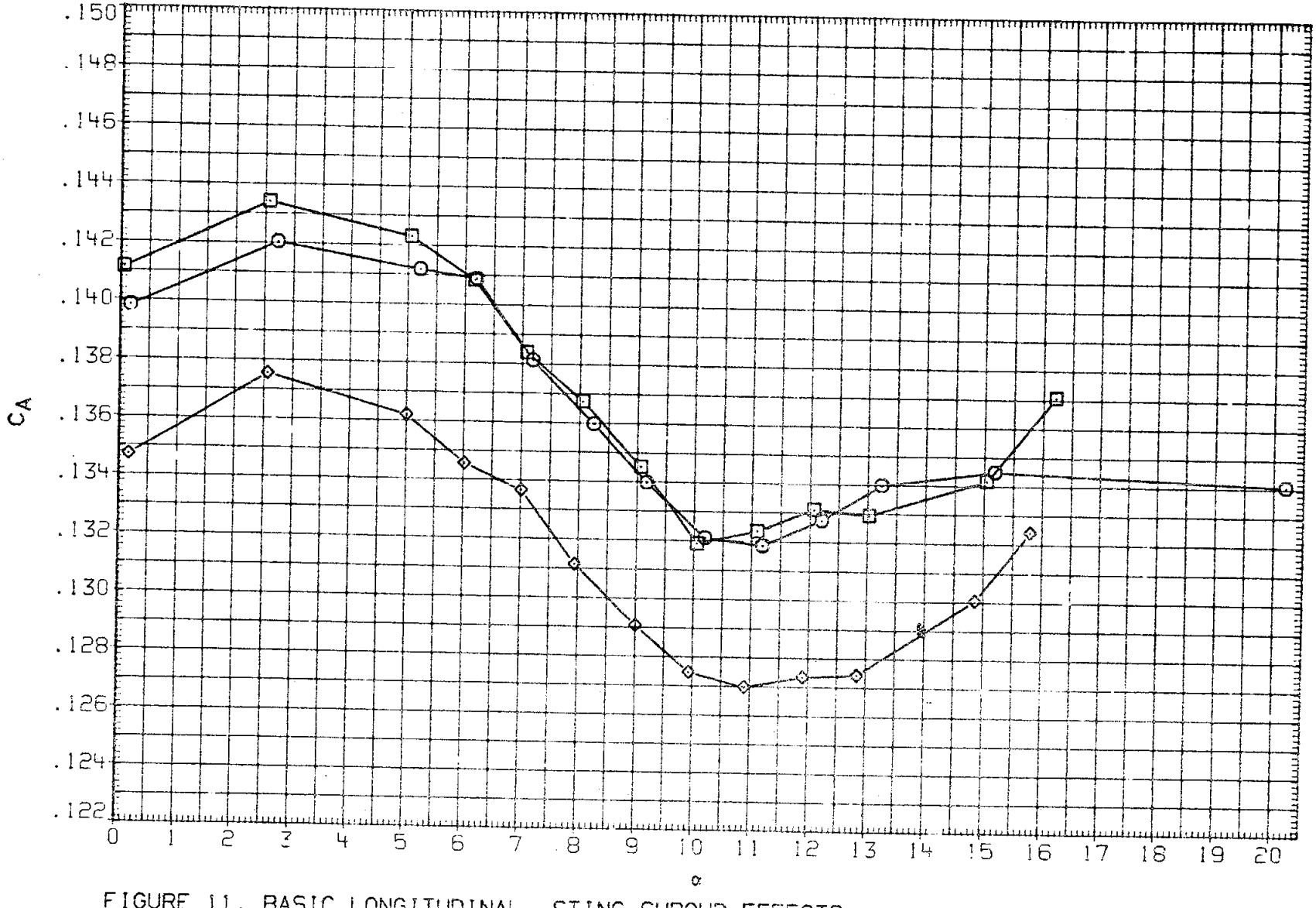

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(H)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

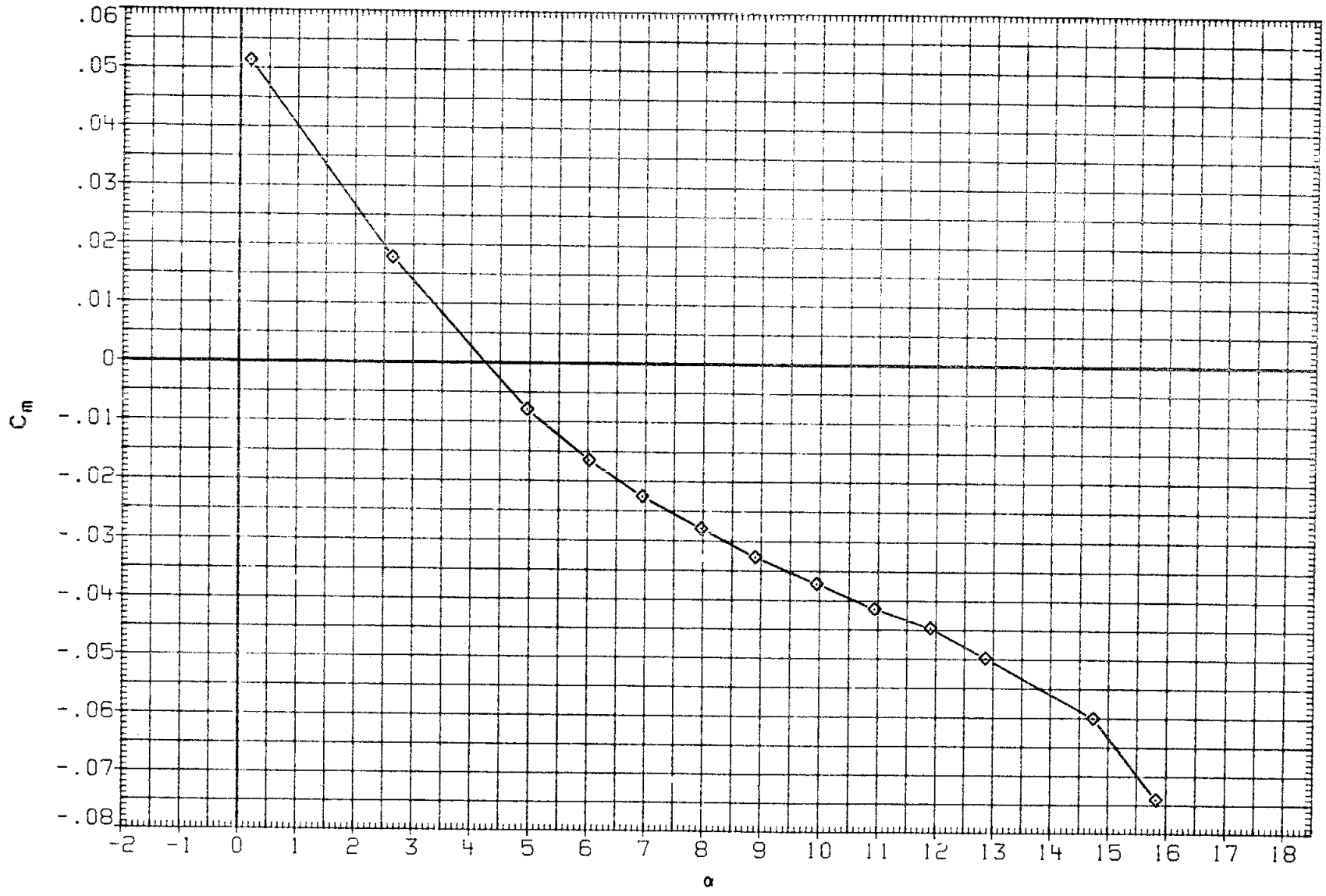

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(I)MACH = 1.07

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

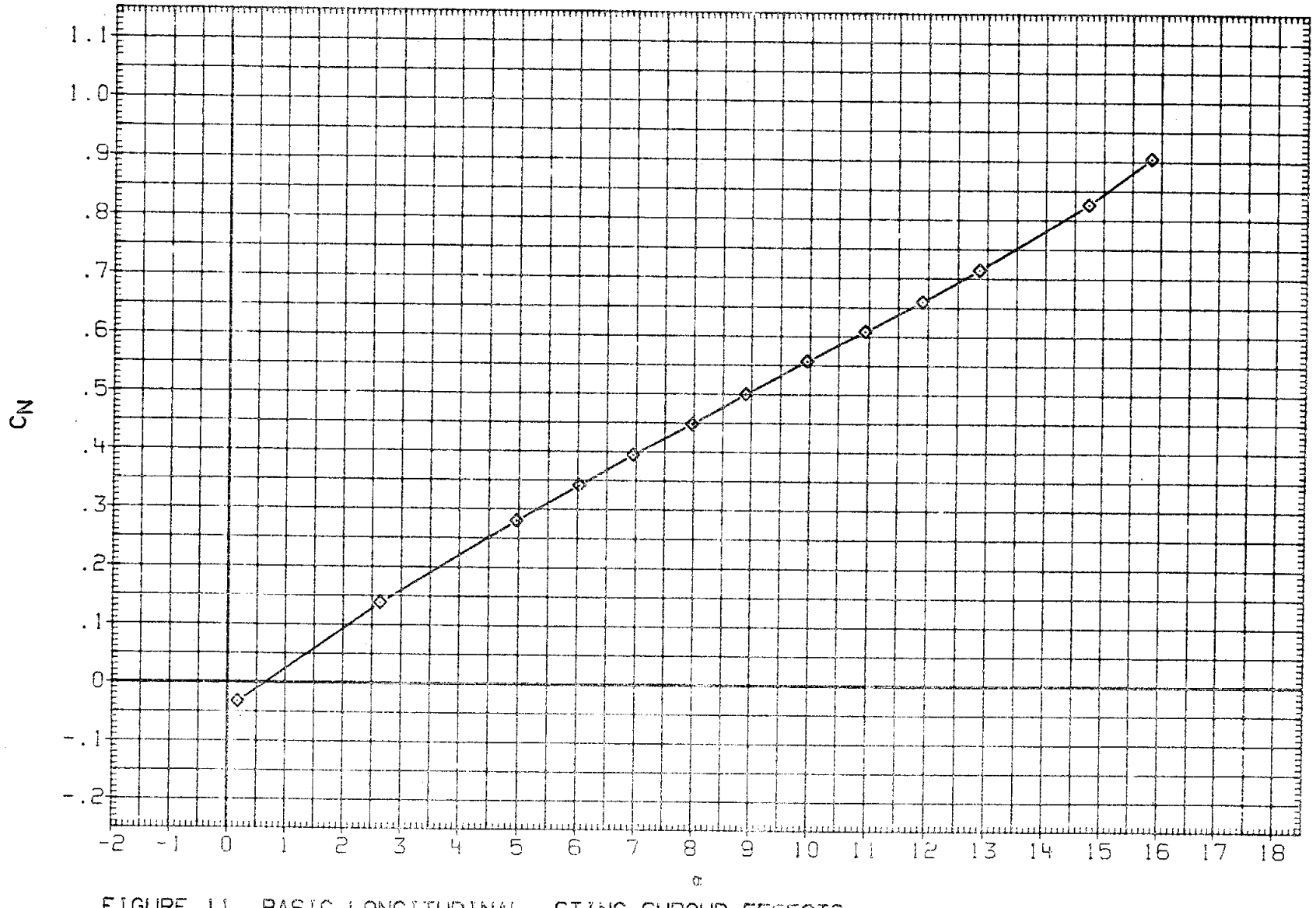

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(I)MACH = 1.07

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

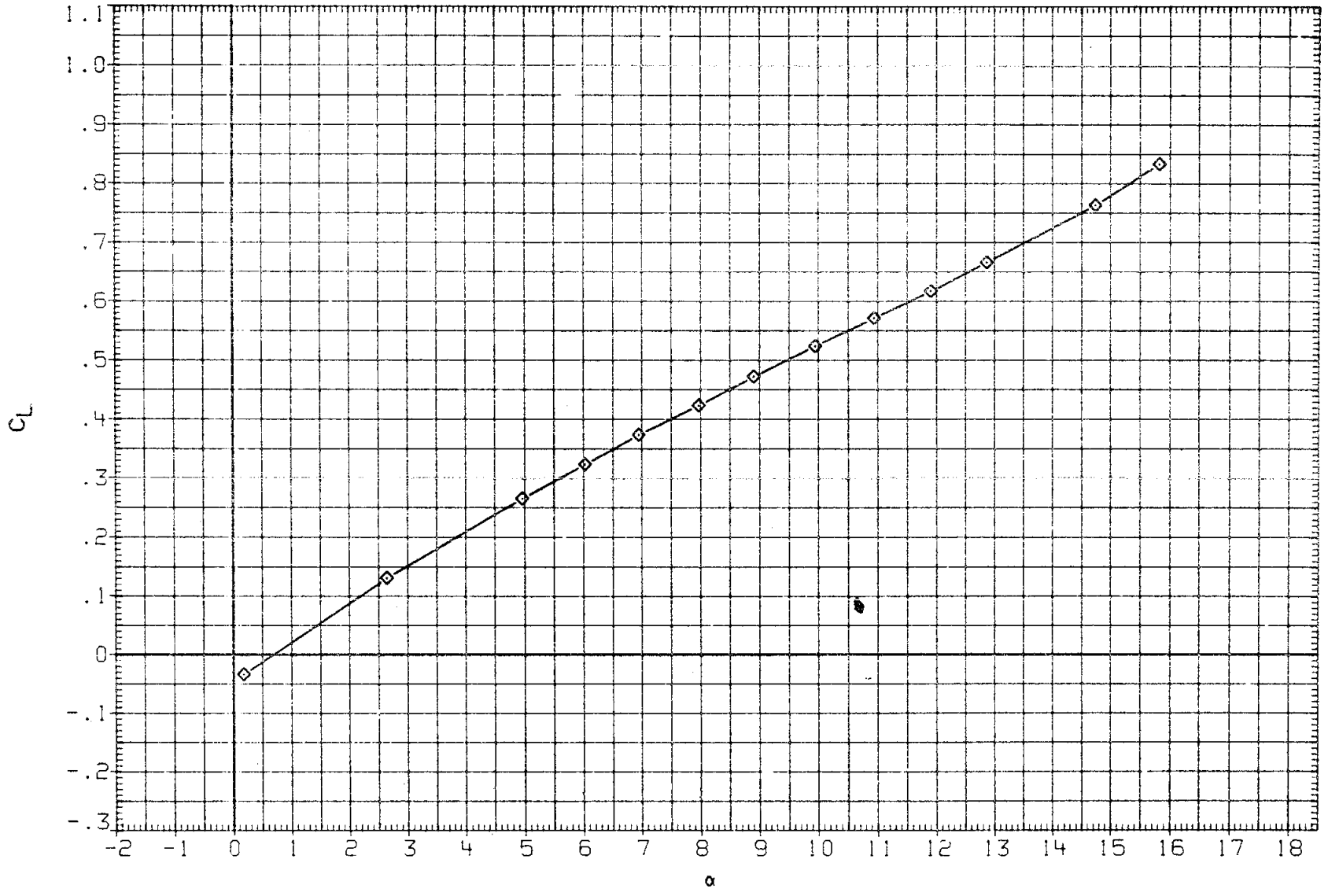

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(I)MACH = 1.07

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

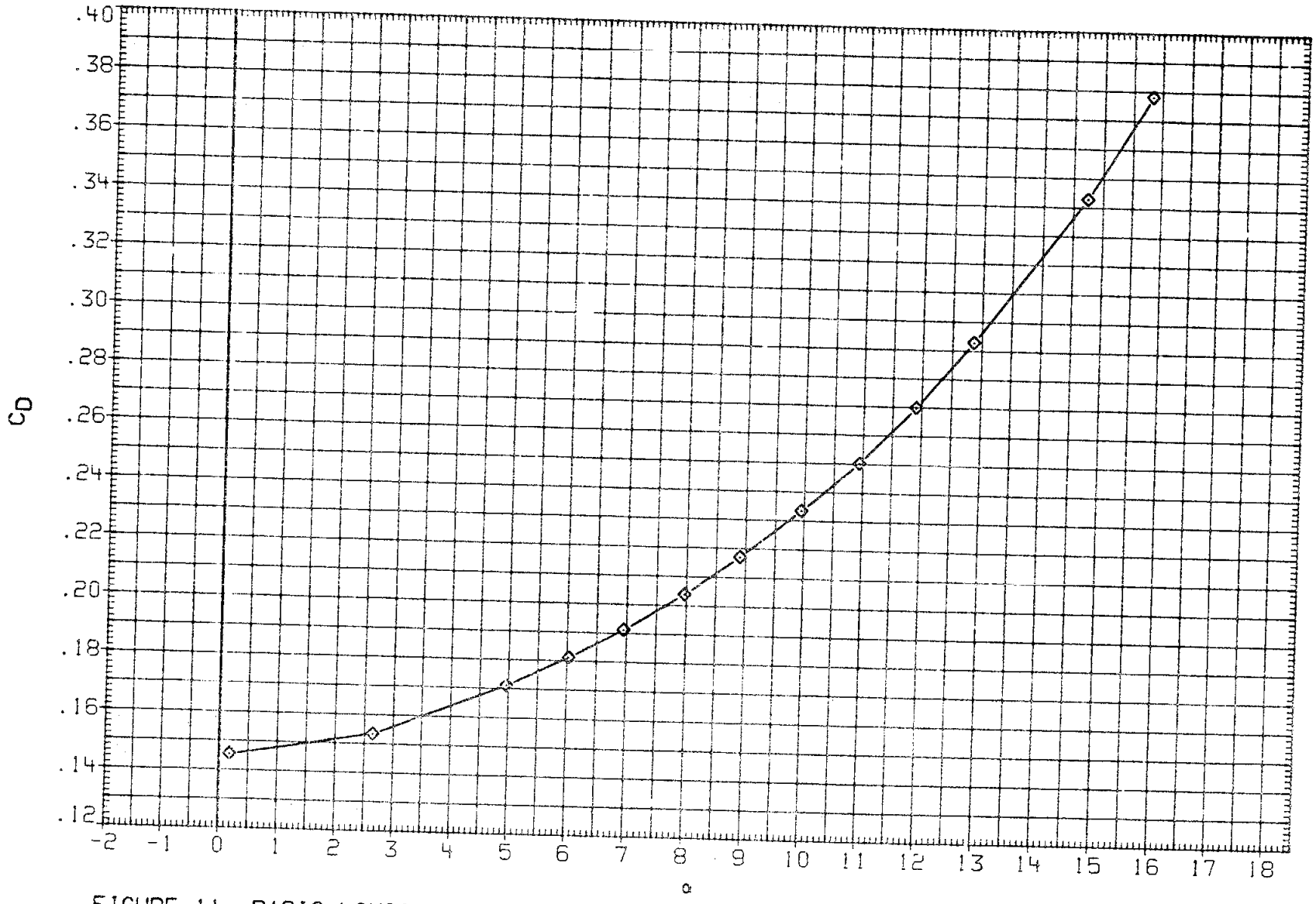

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(I)MACH = 1.07

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

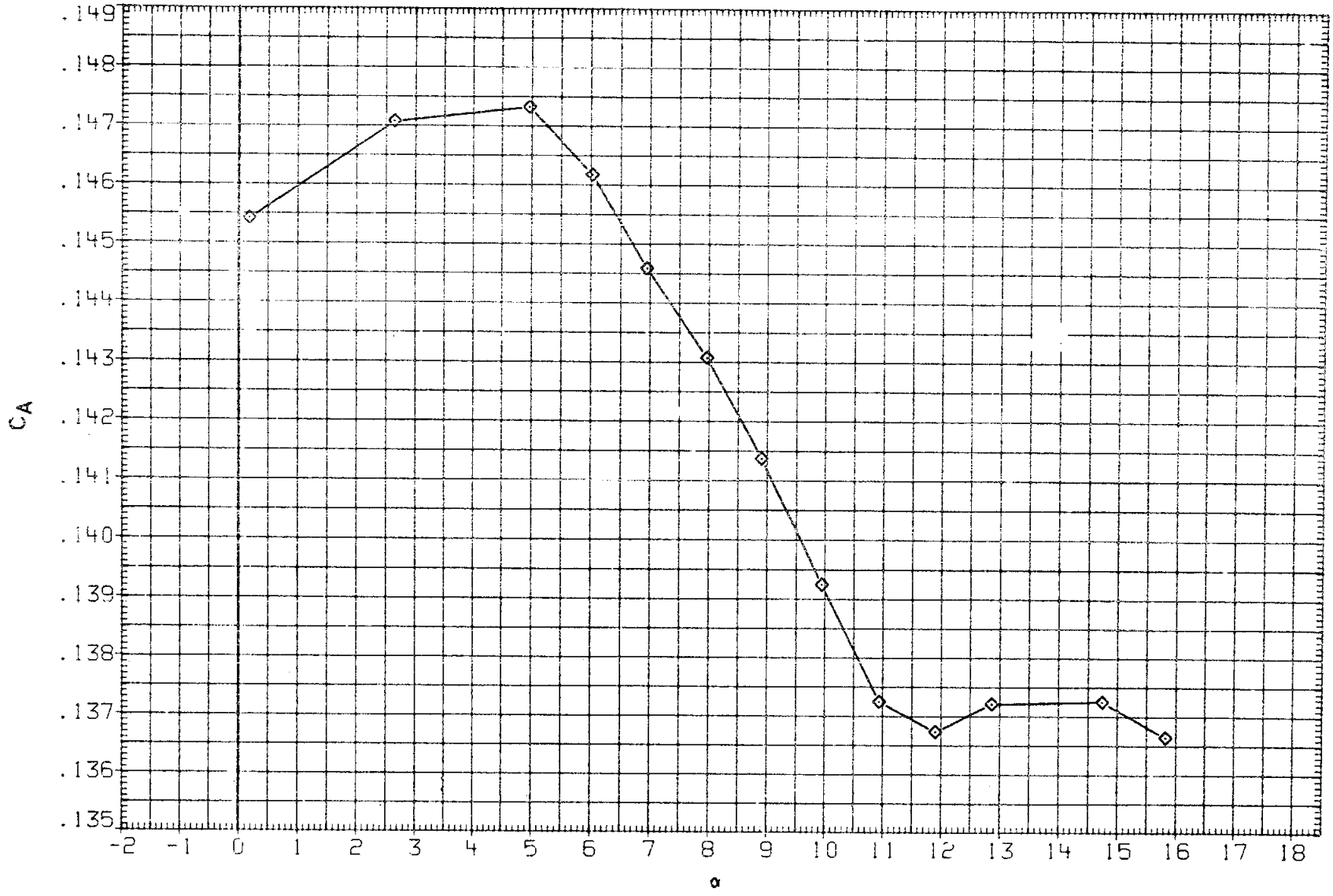

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(I)MACH = 1.07

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

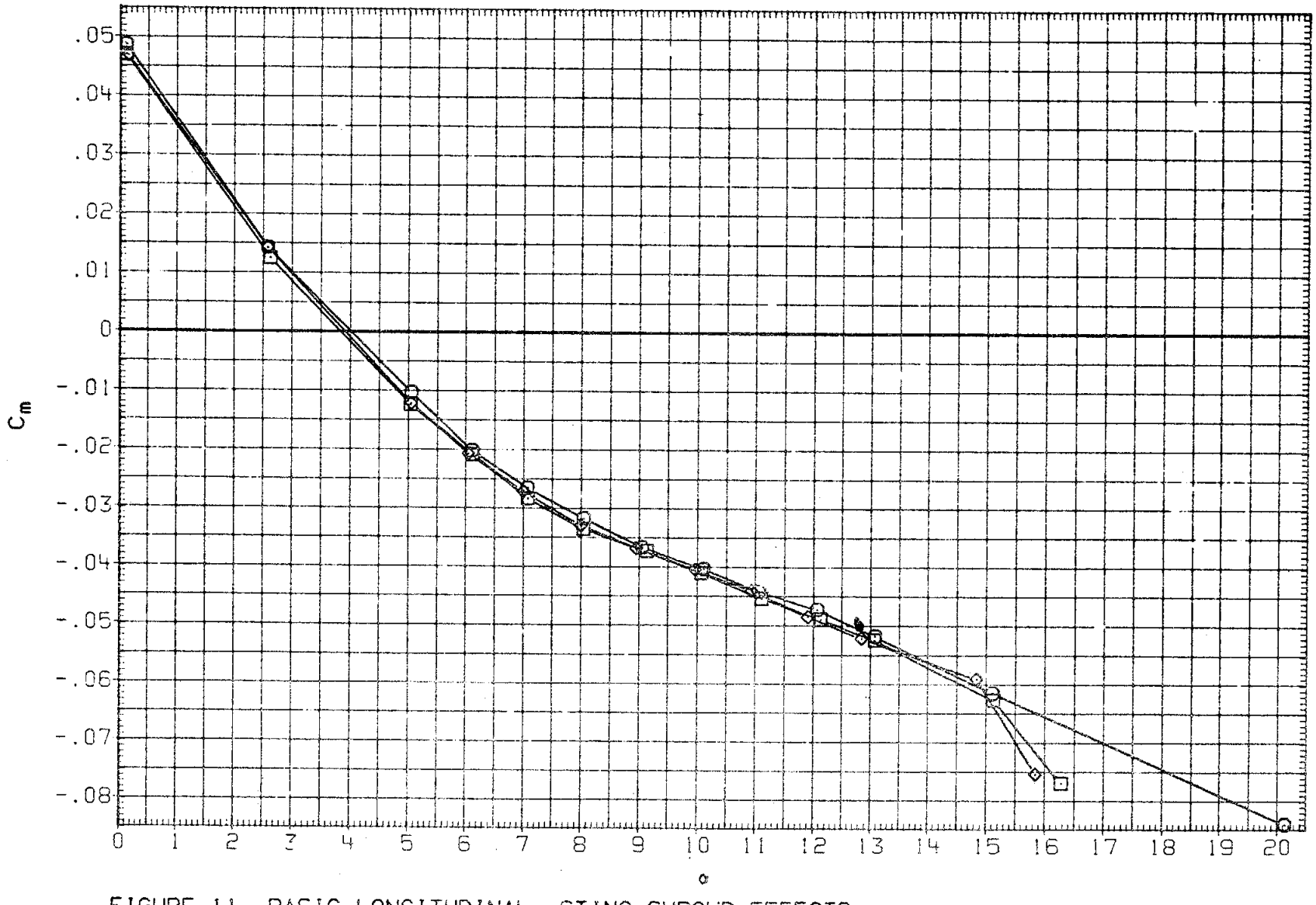

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(J)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

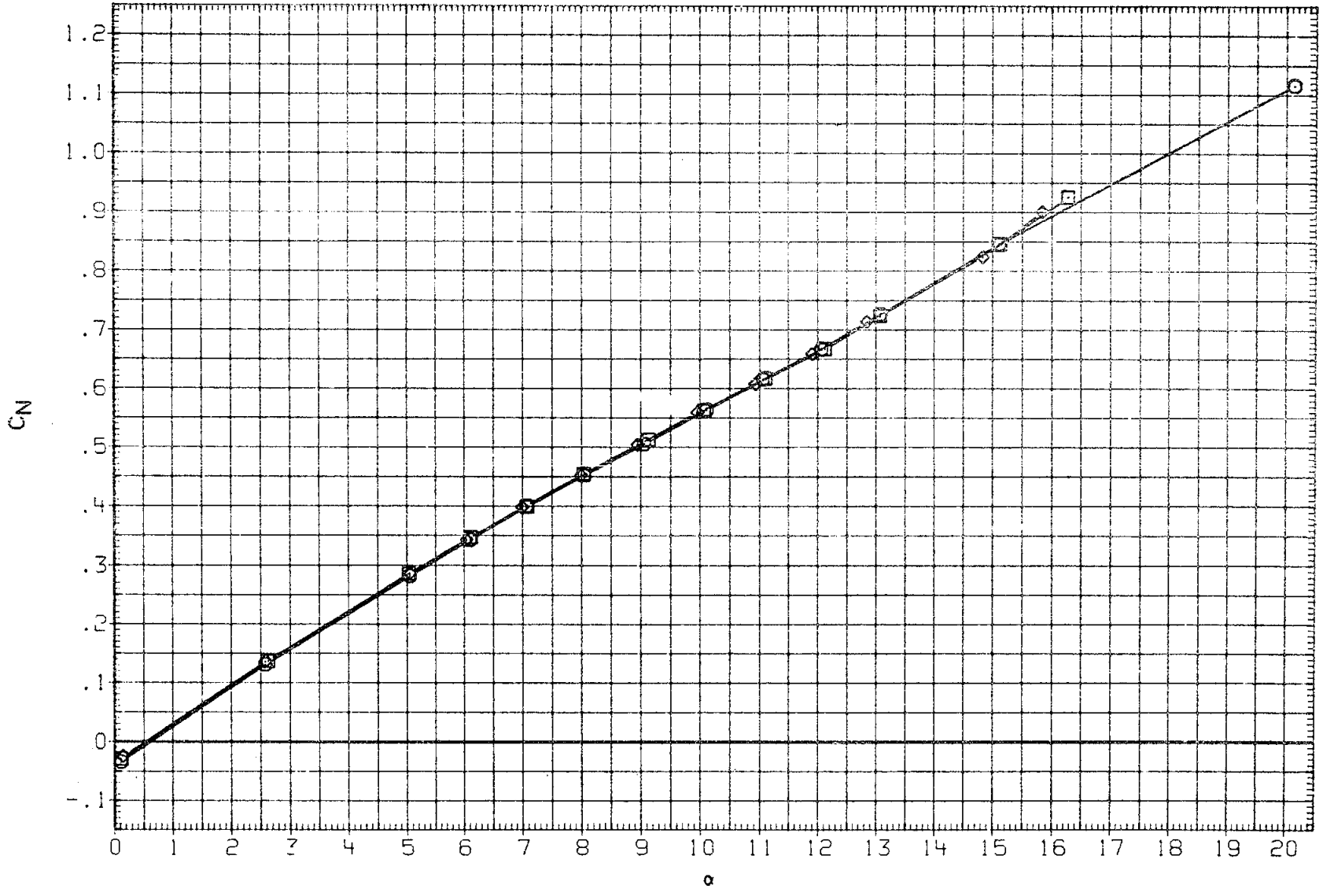

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(J)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

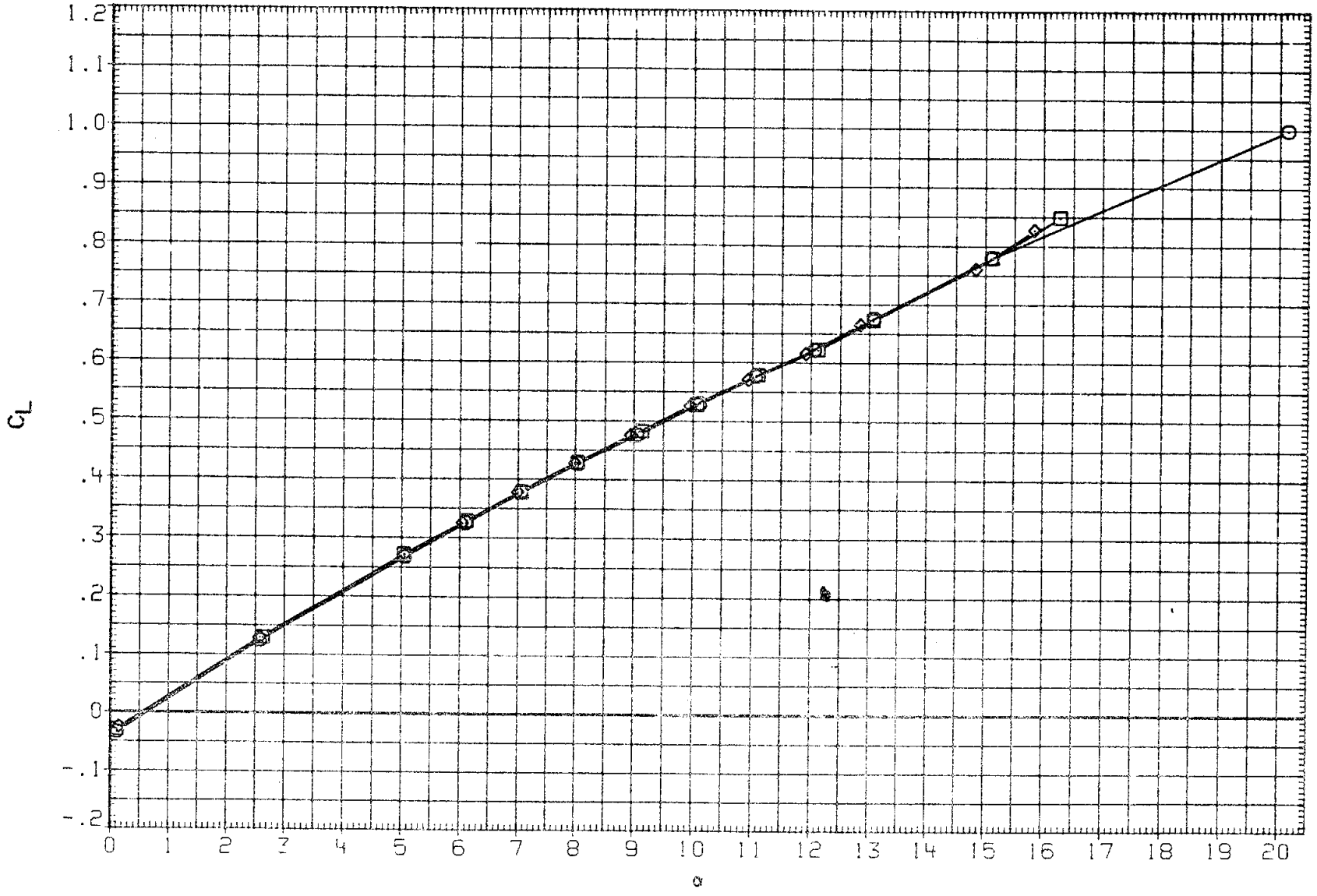

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(J)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

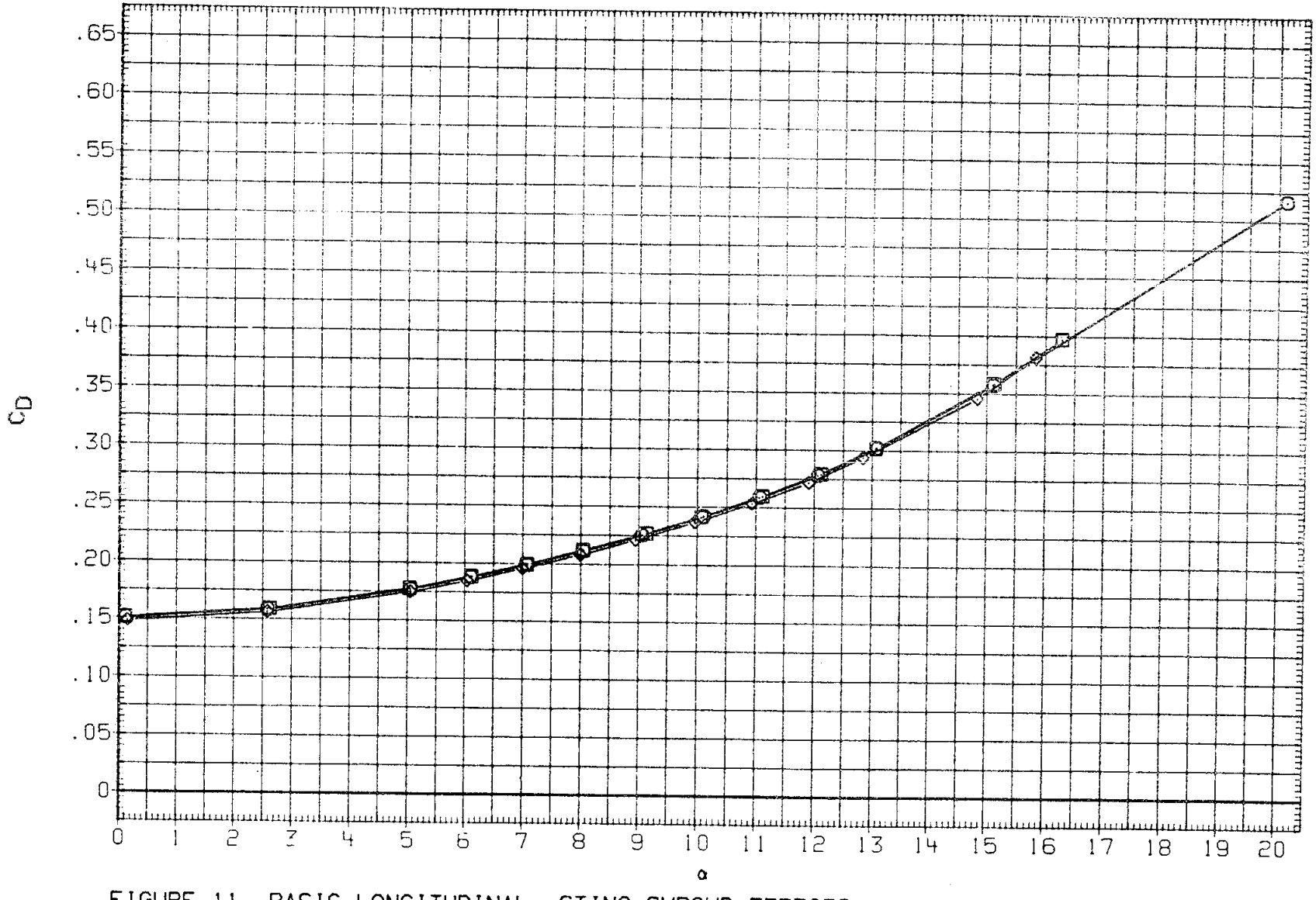

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(J)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

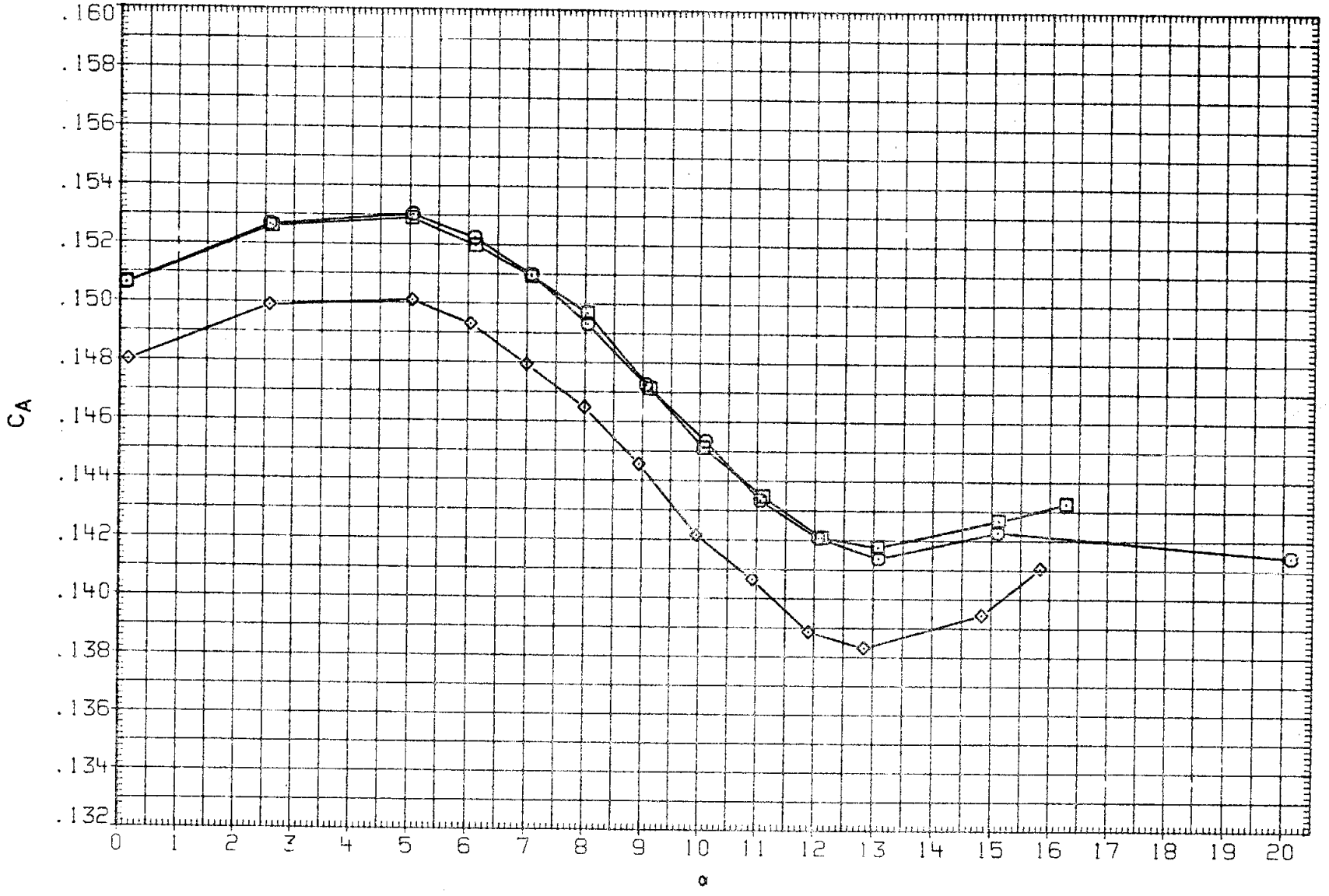

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(J)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

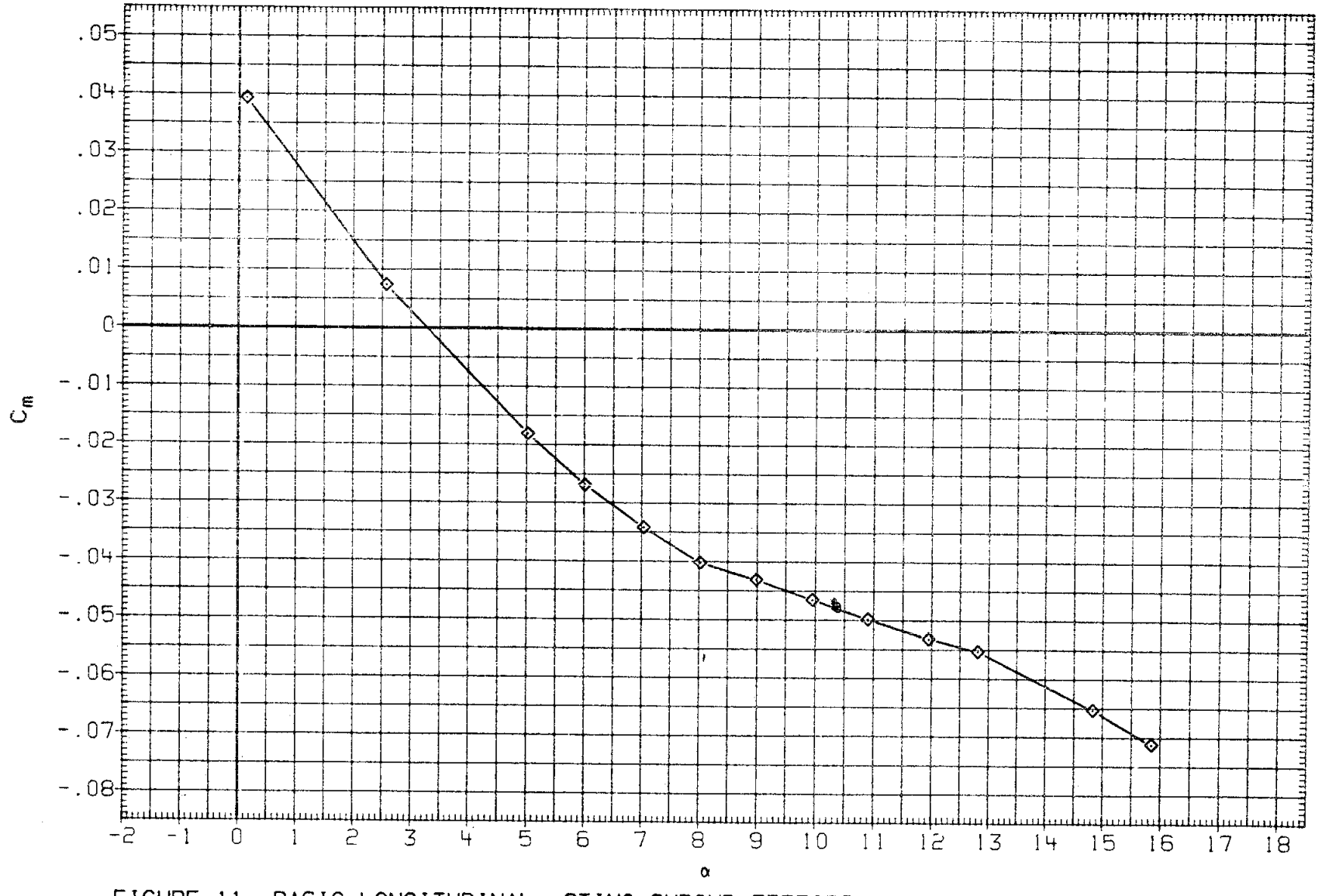

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(K)MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

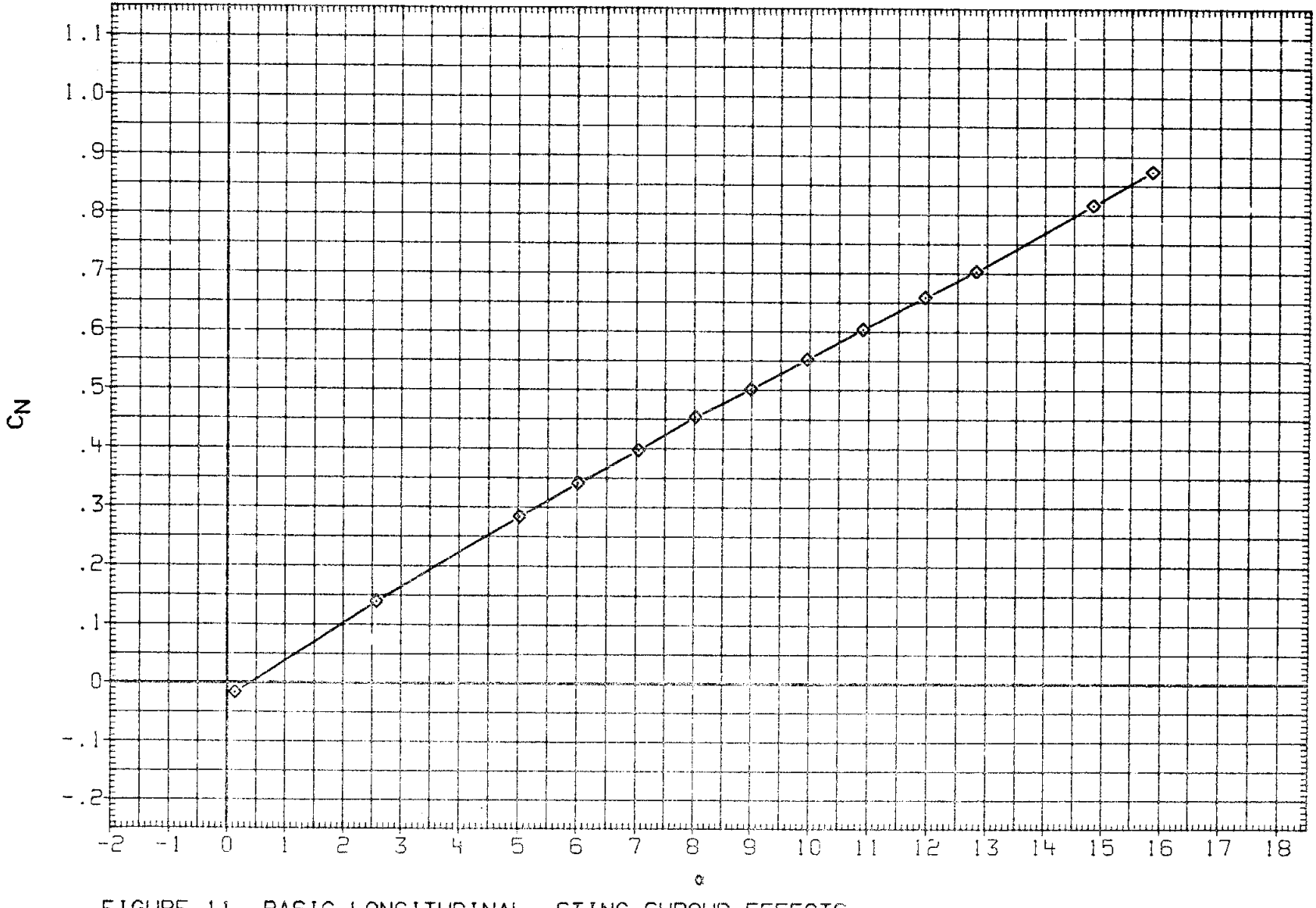

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(K)MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

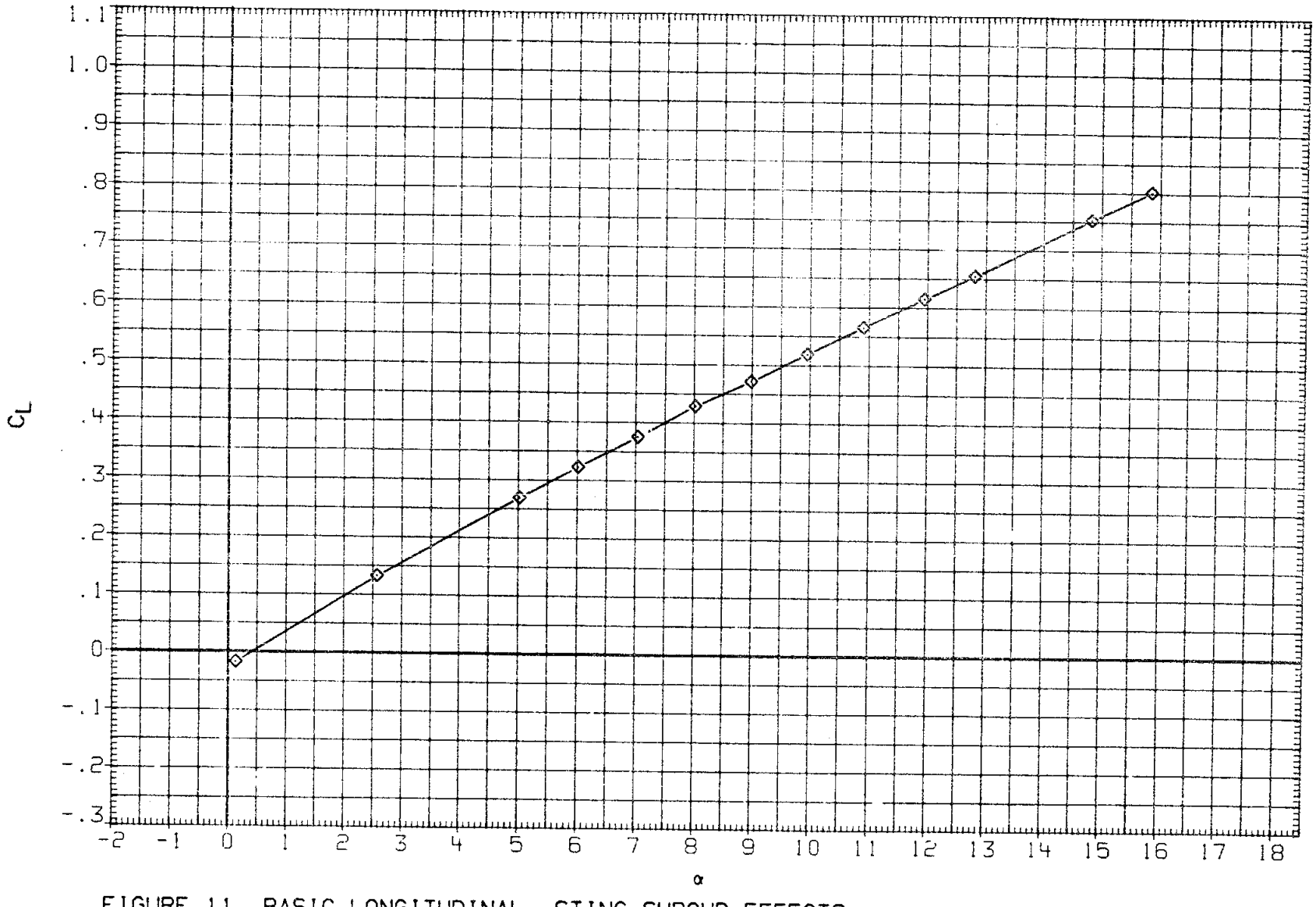

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(K)MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

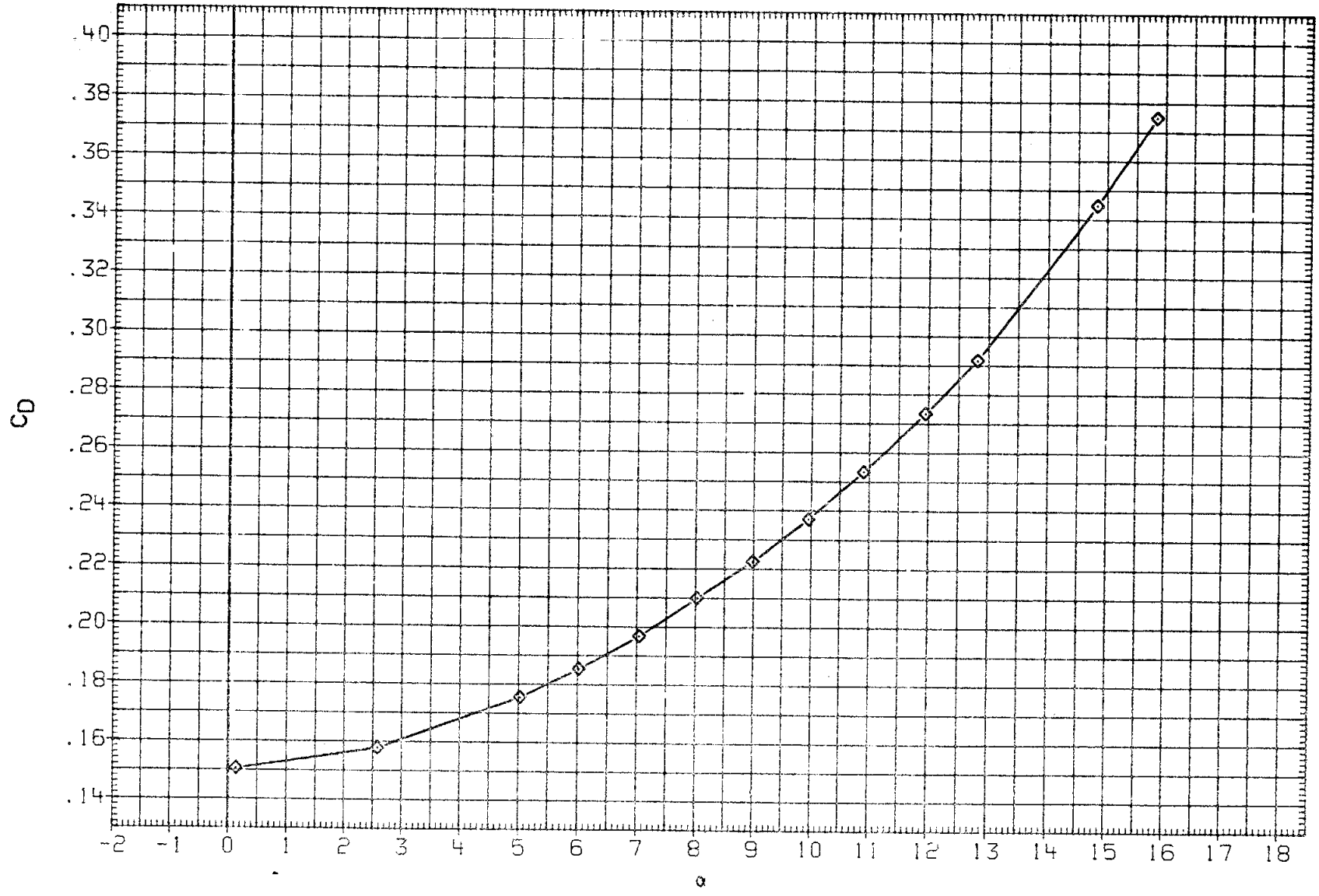

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(K)MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 3251(0A270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

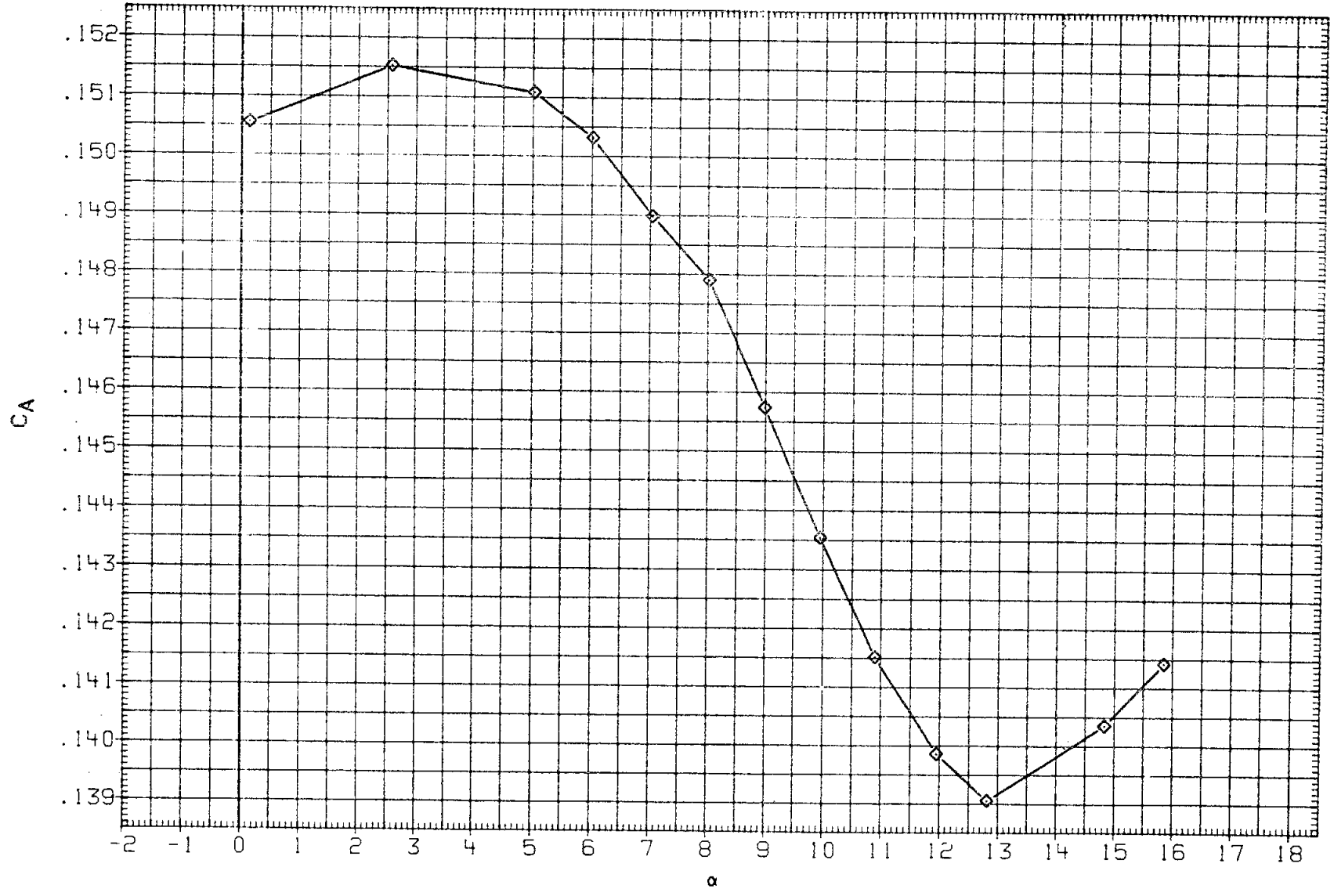

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(K)MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

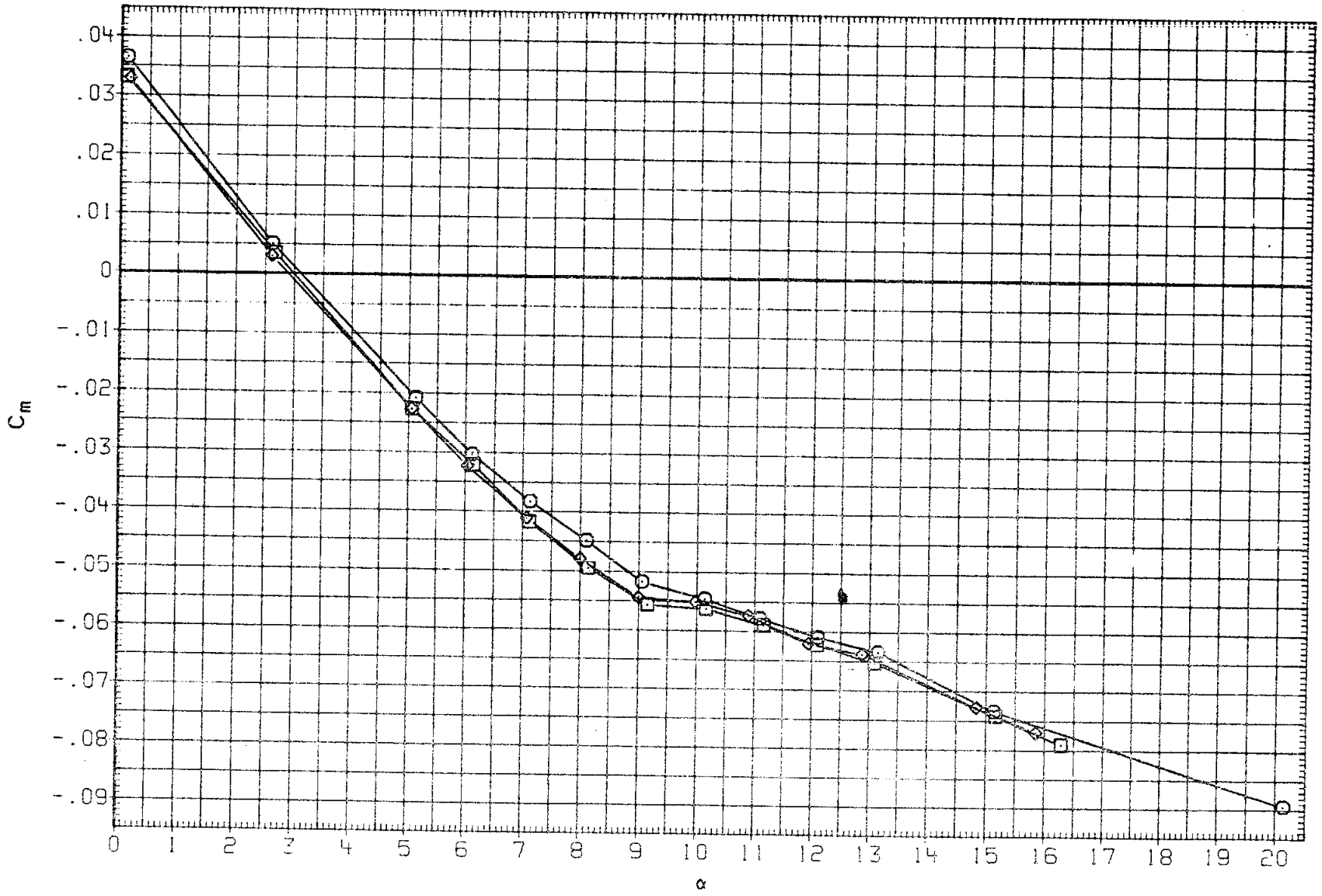

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(L)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

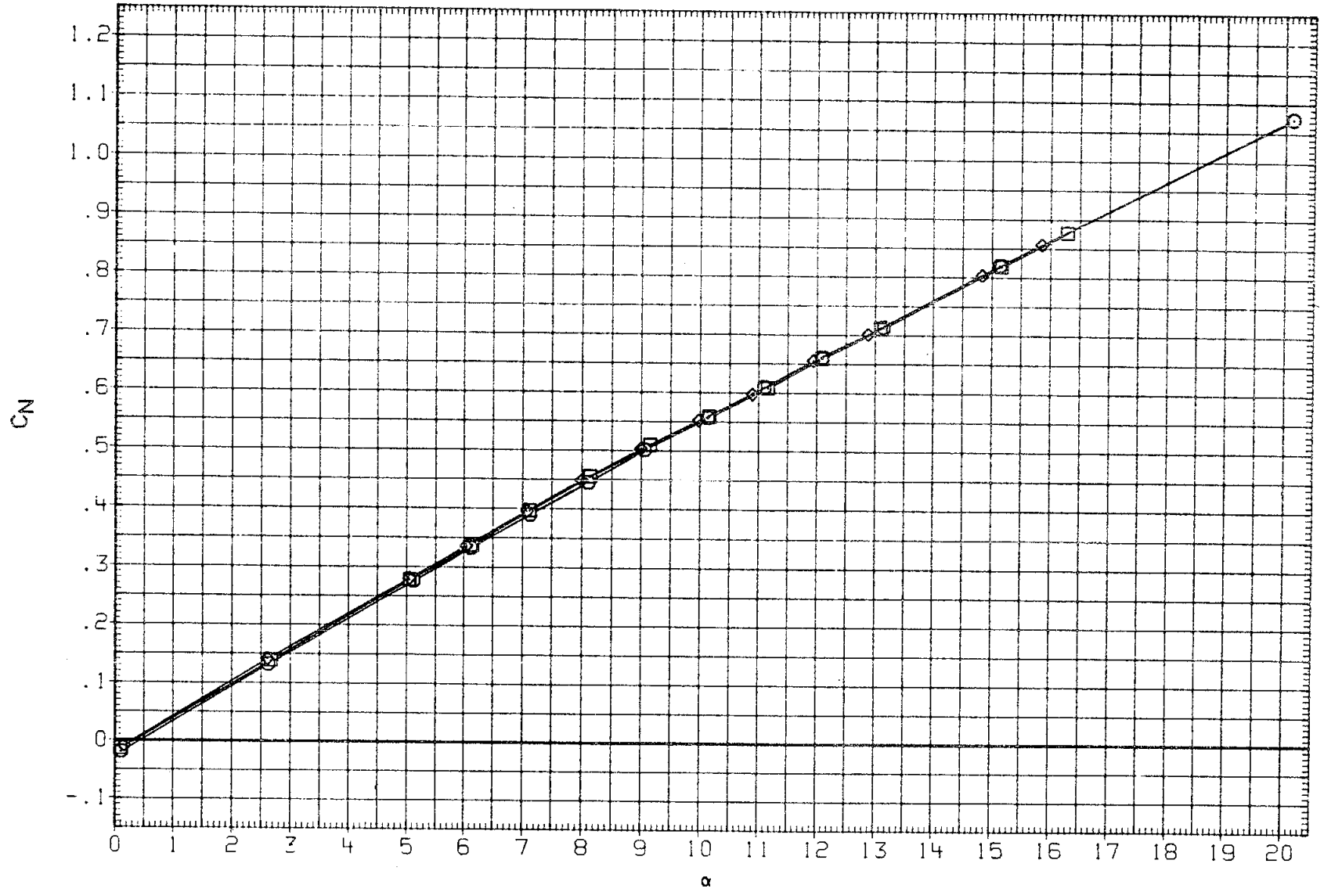

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(L)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

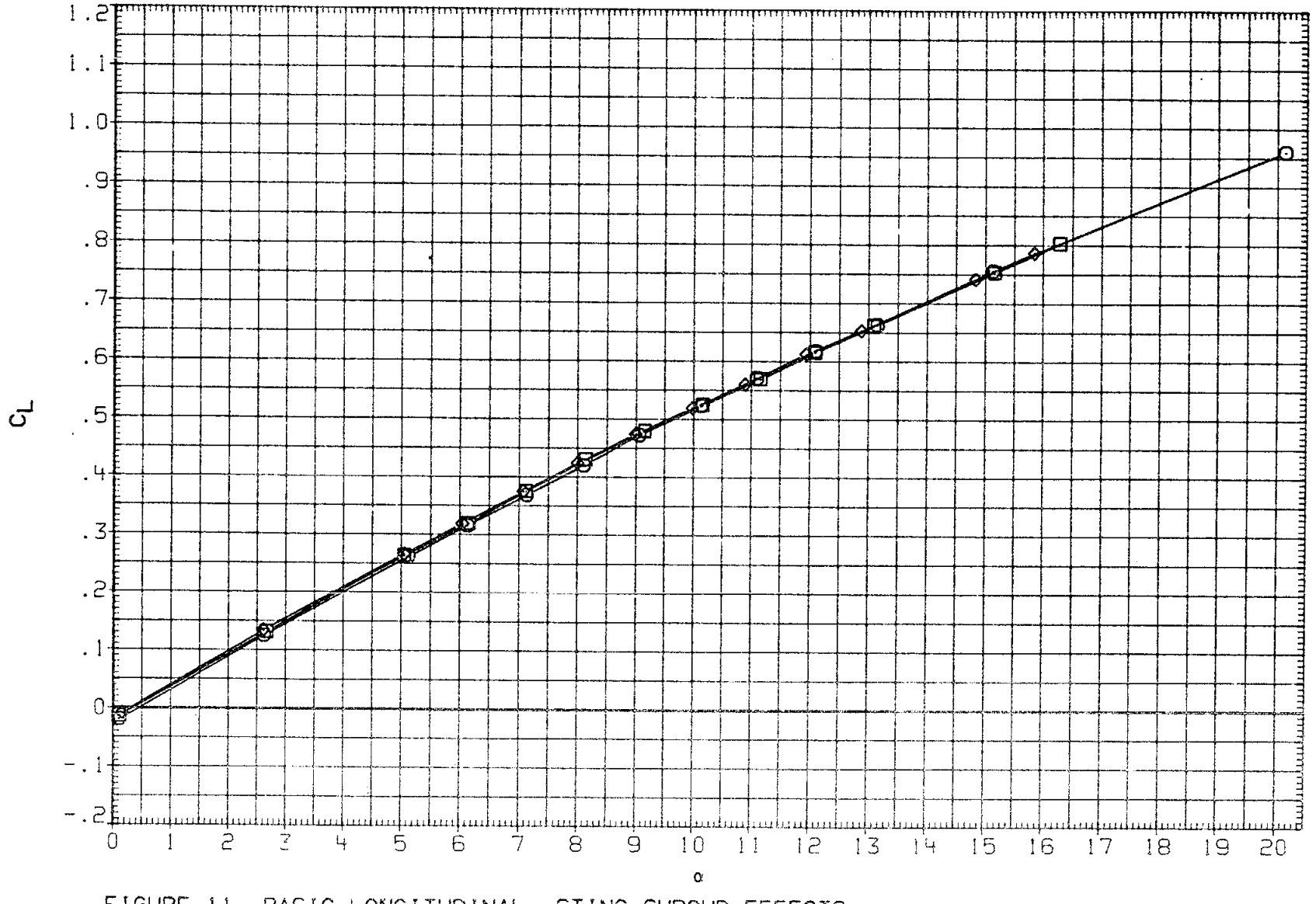

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(L)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

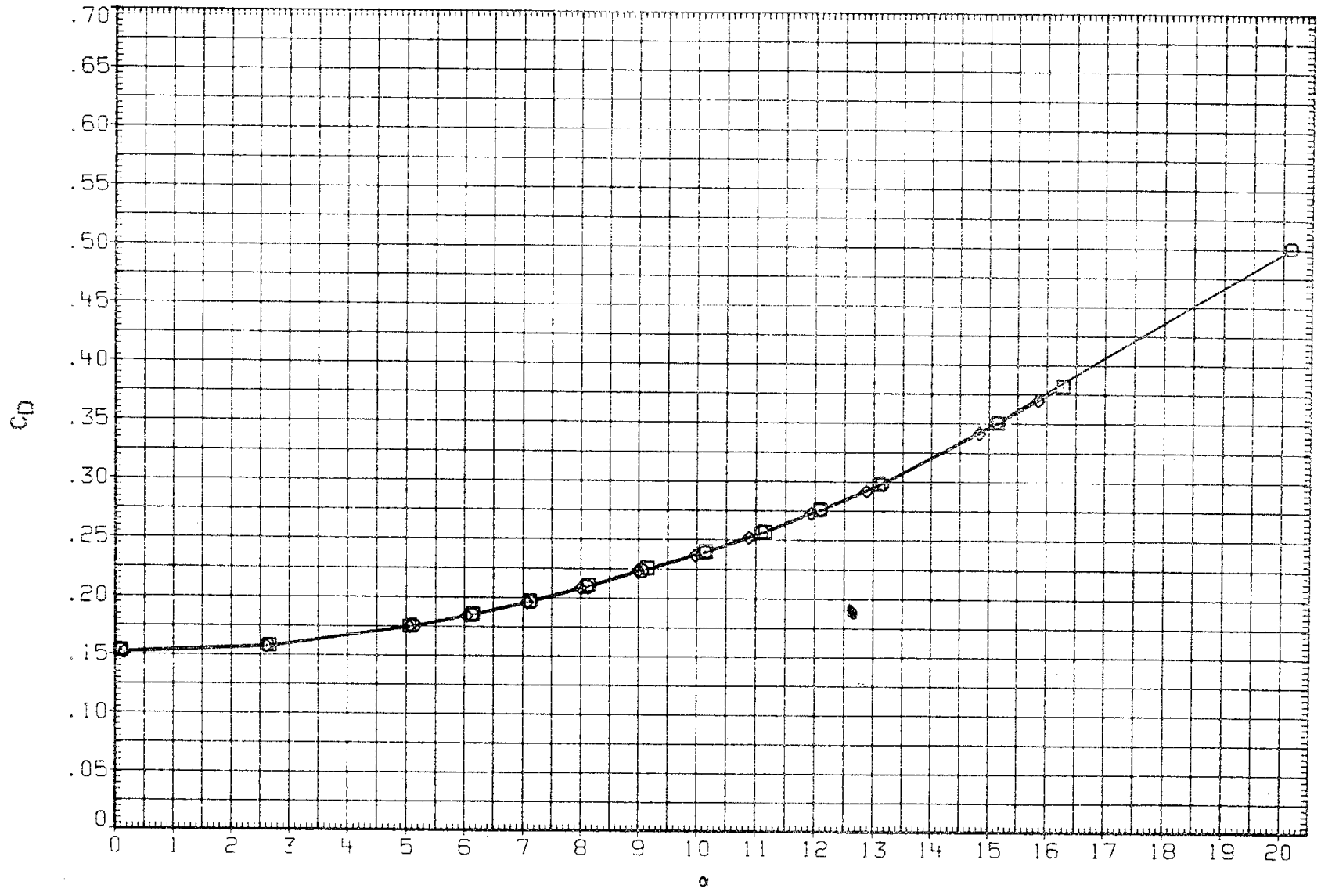

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(L)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

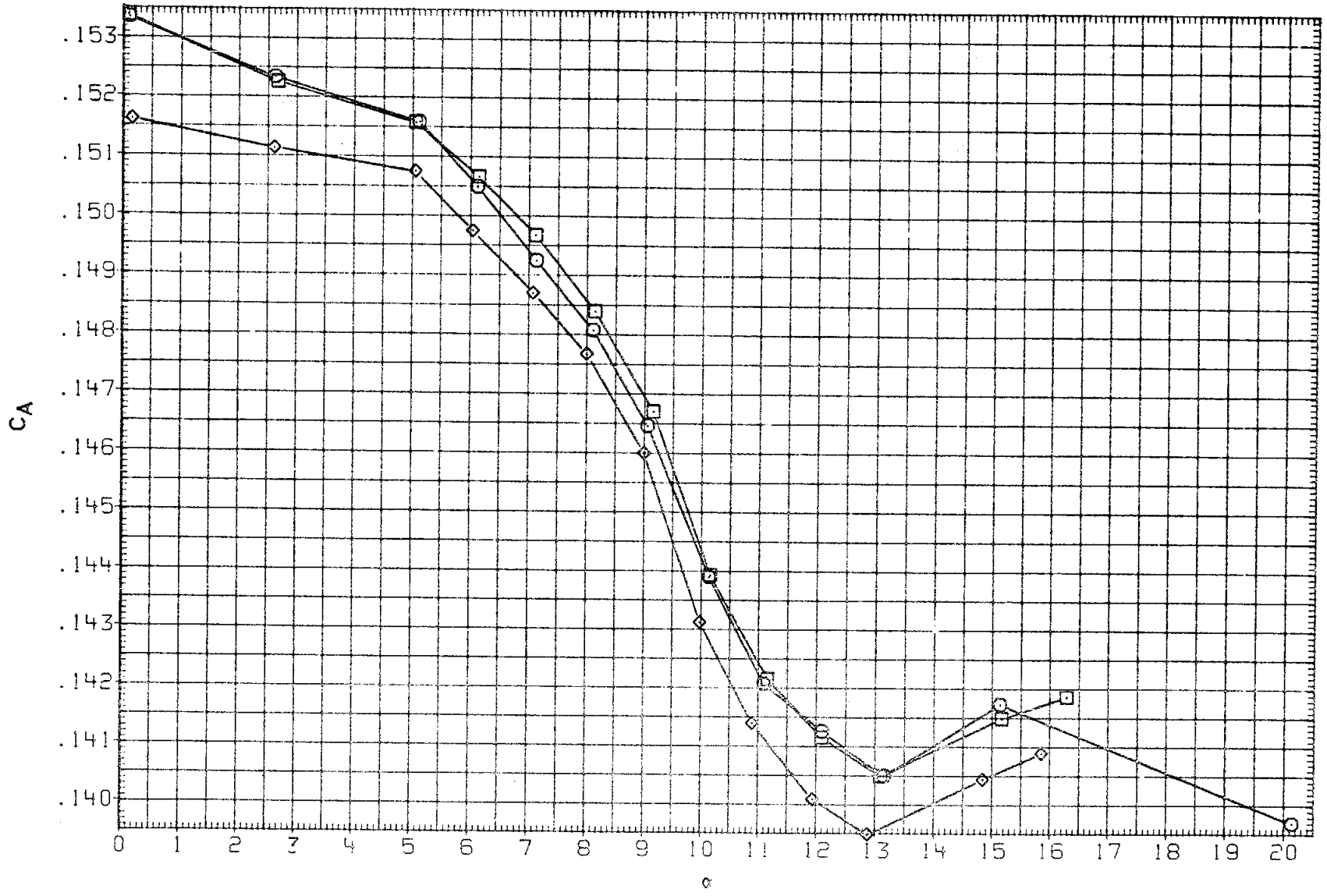

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(L)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT WT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

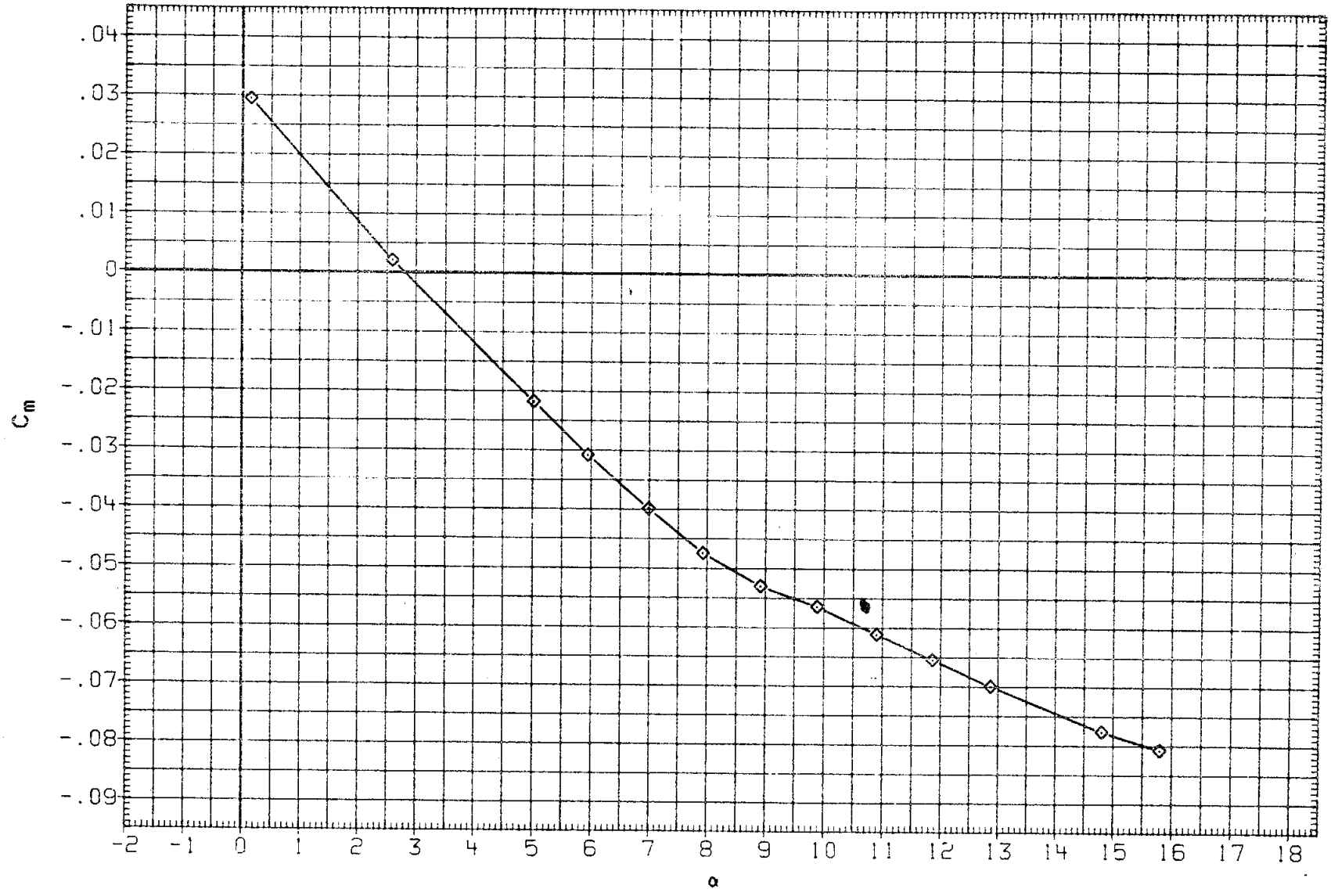

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(M)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

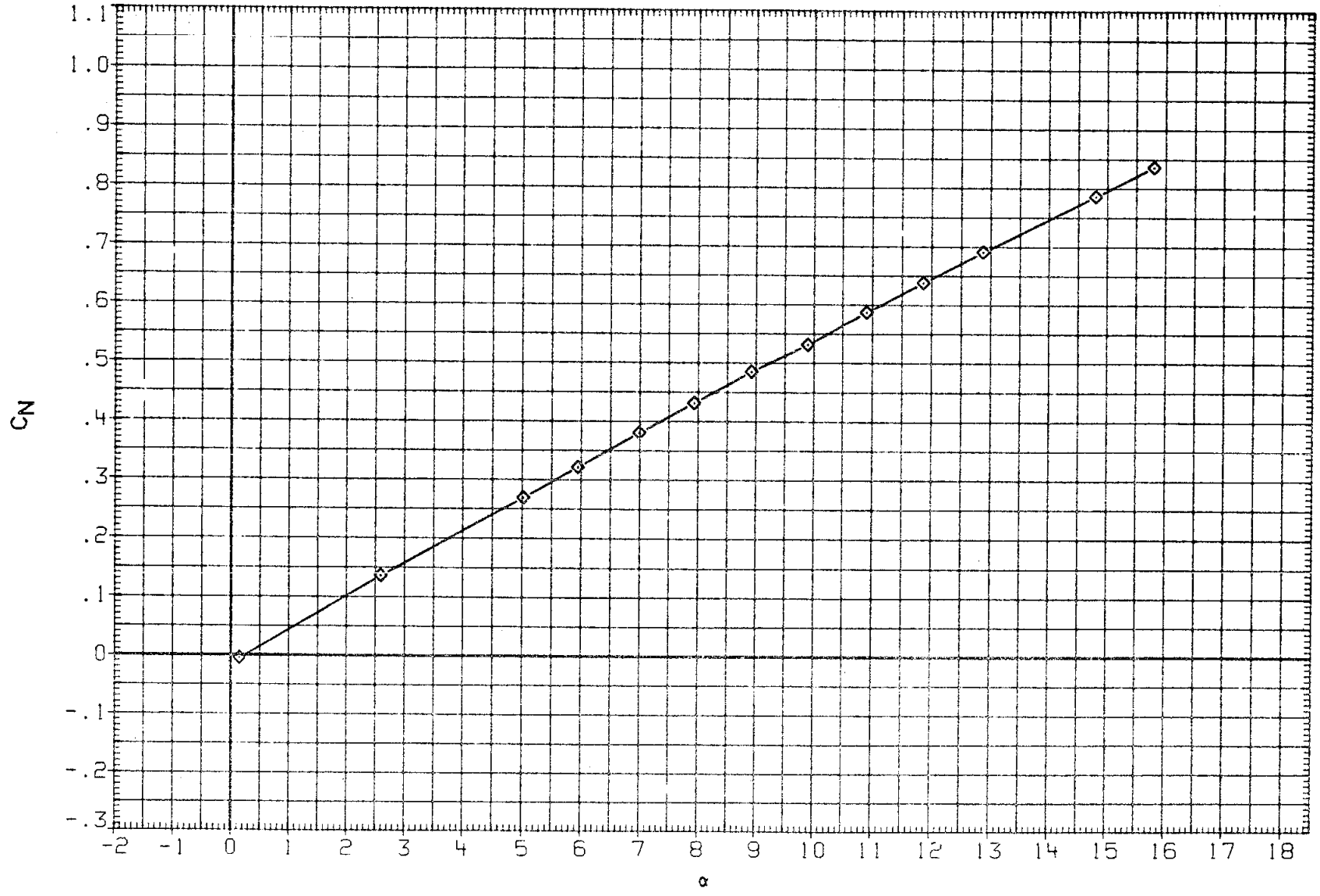

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(M)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

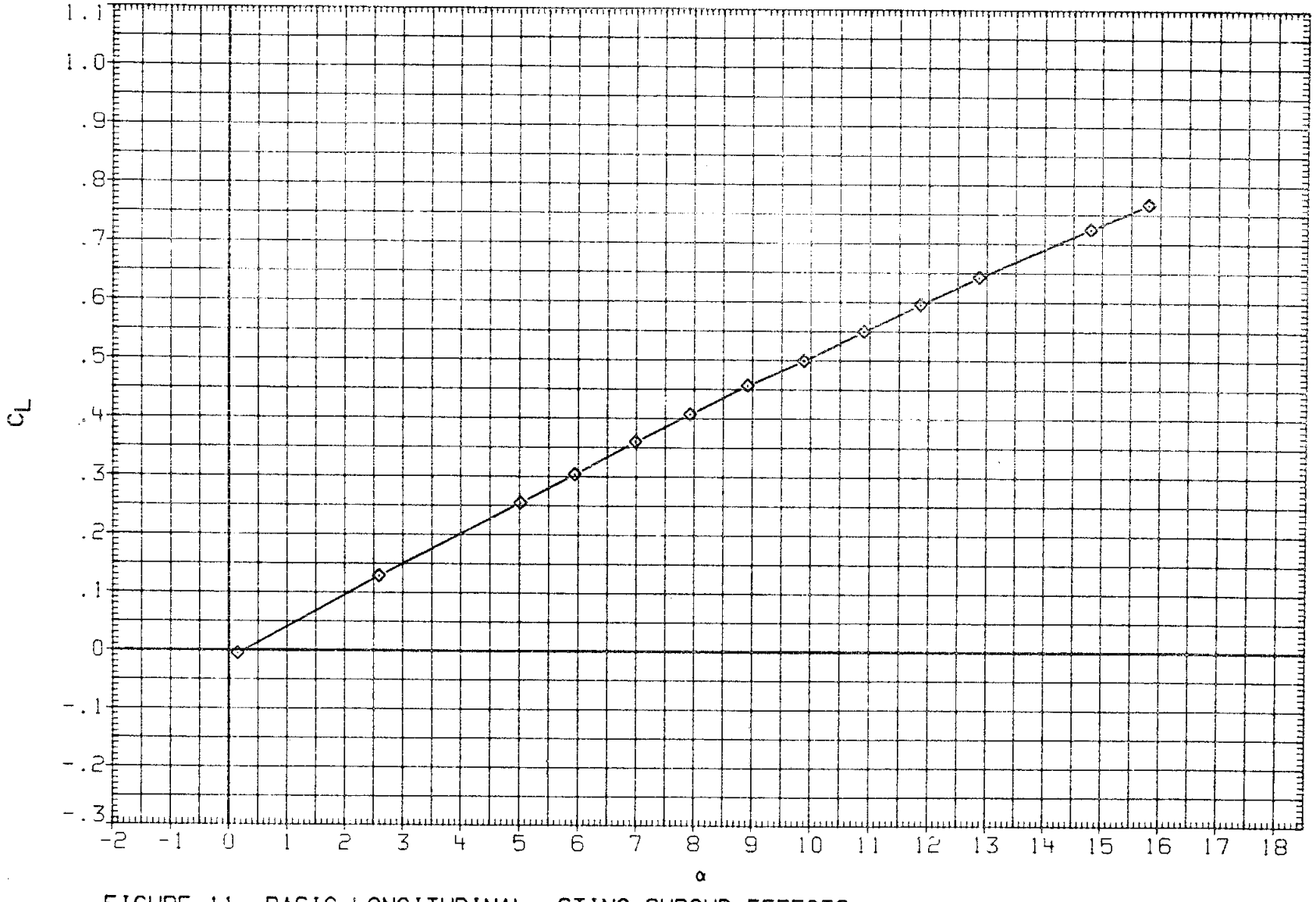

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(M)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

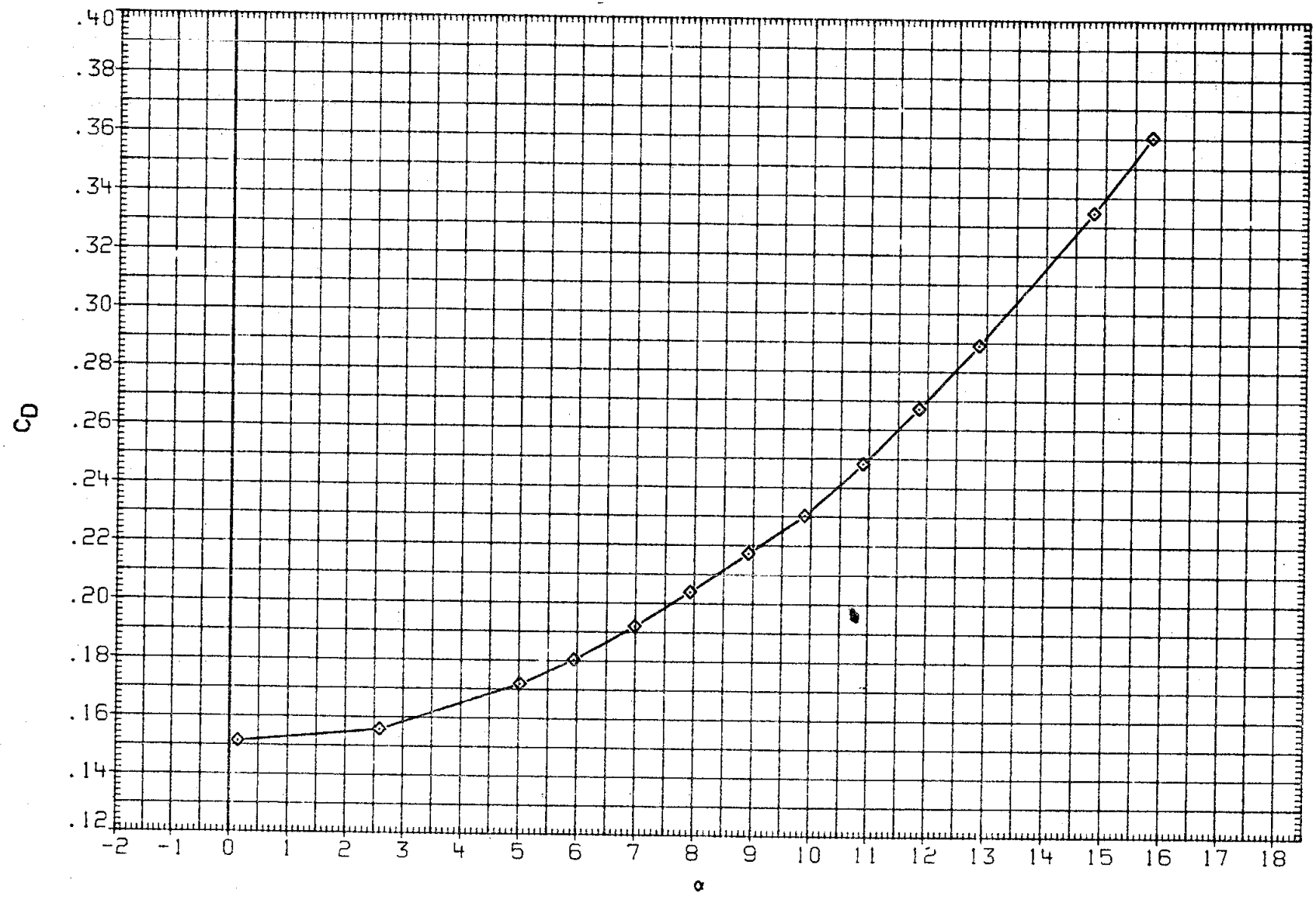

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(M)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

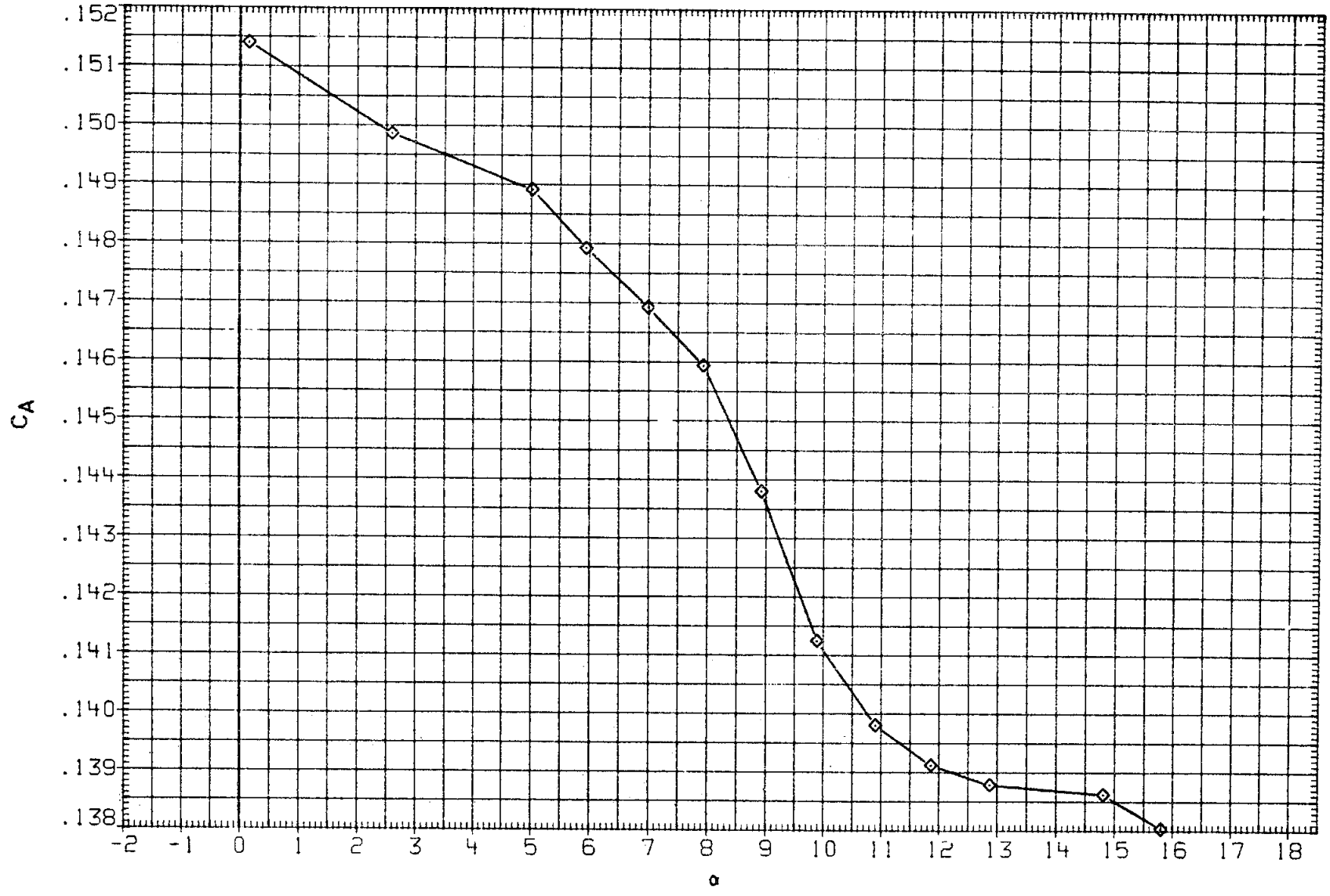

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(M)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

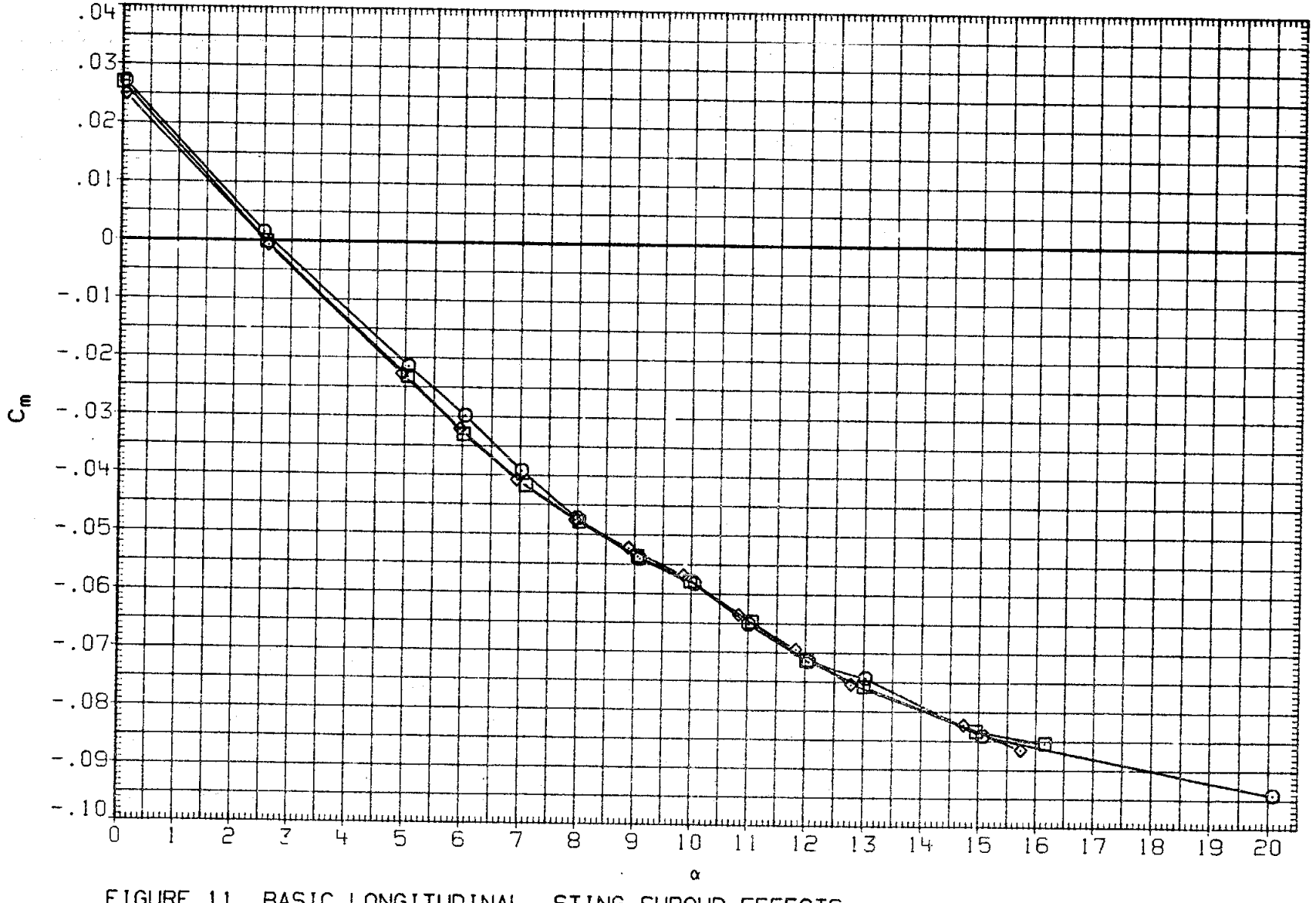

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(N)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

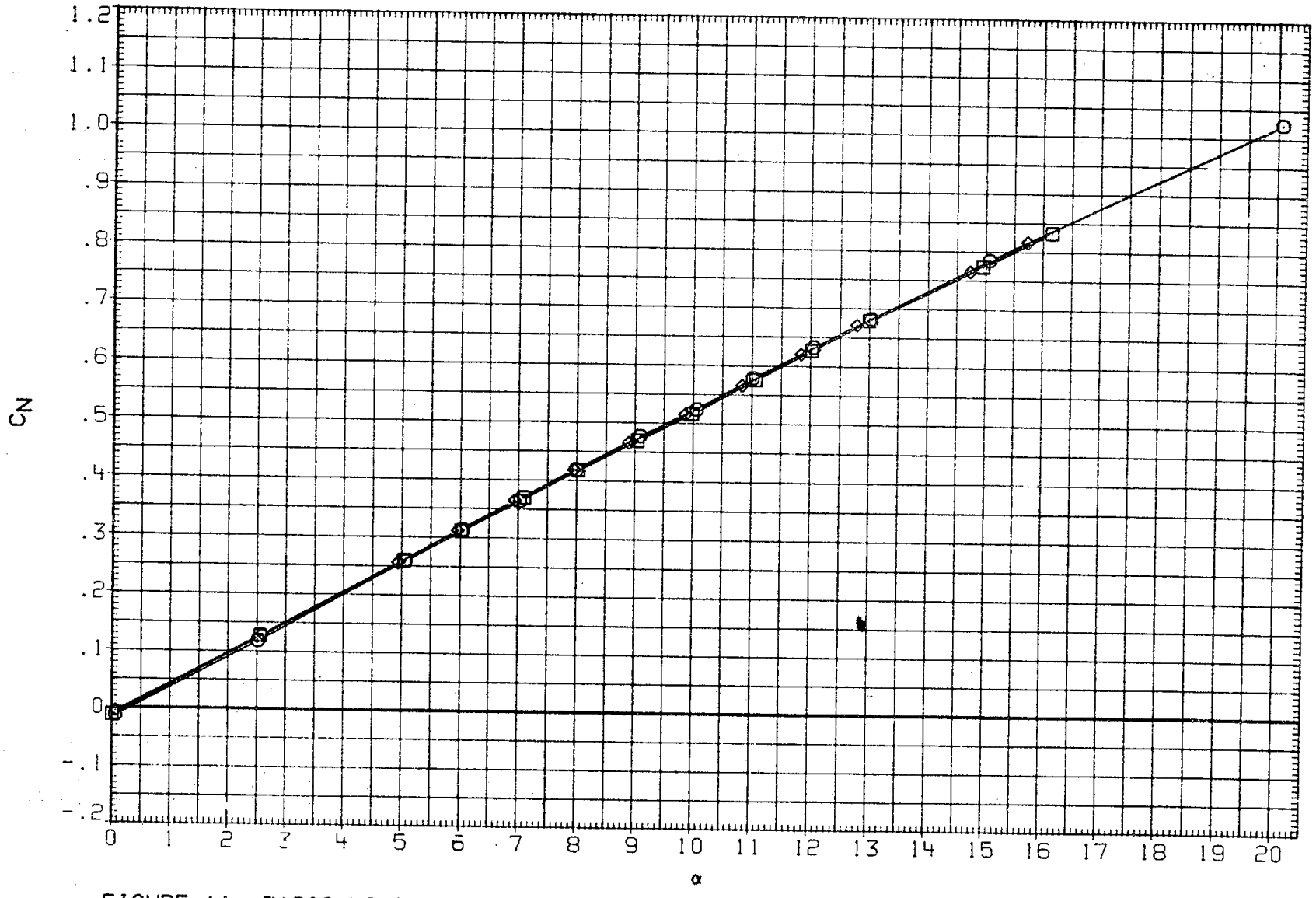

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(N)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORR.	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

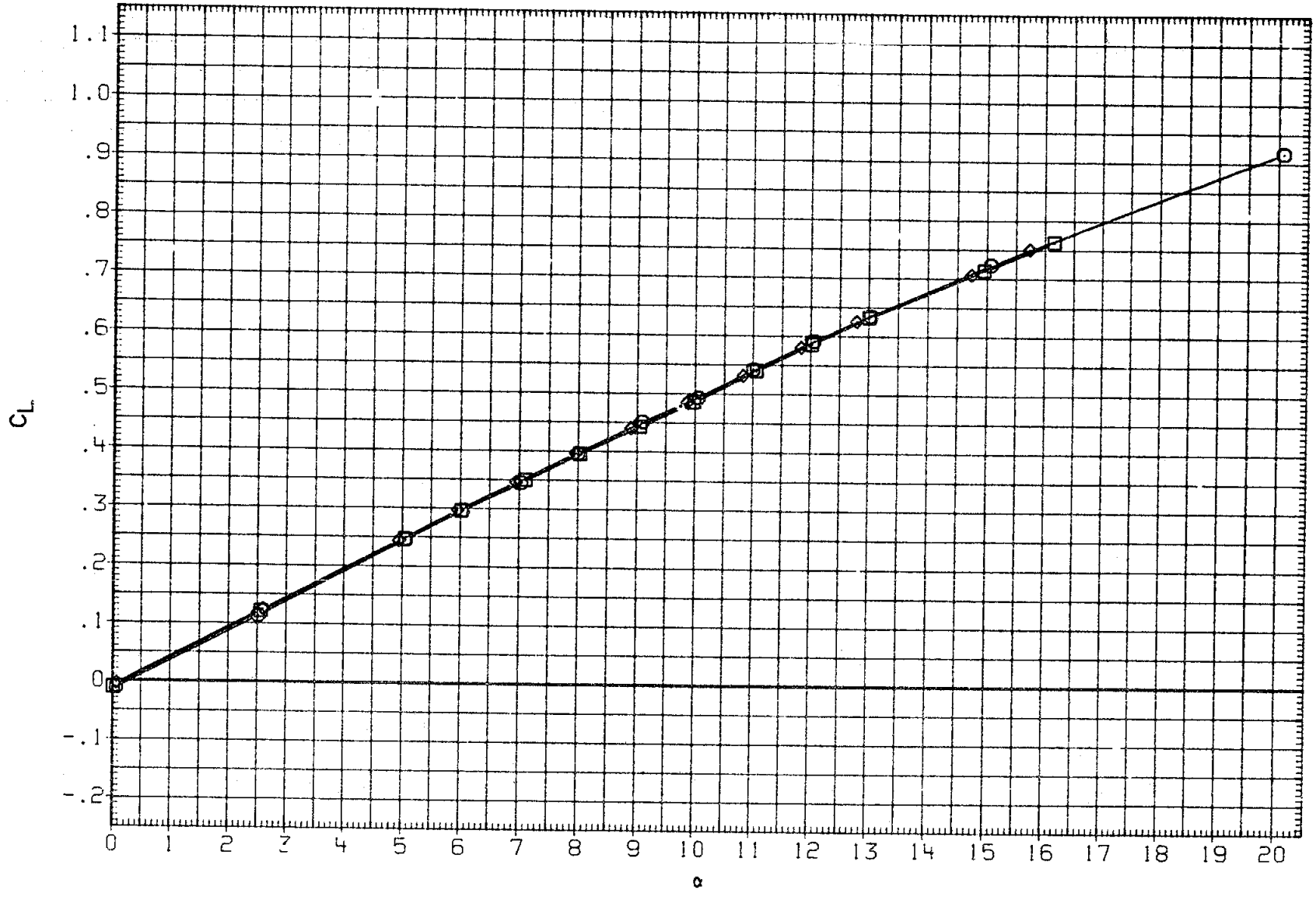

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(N)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

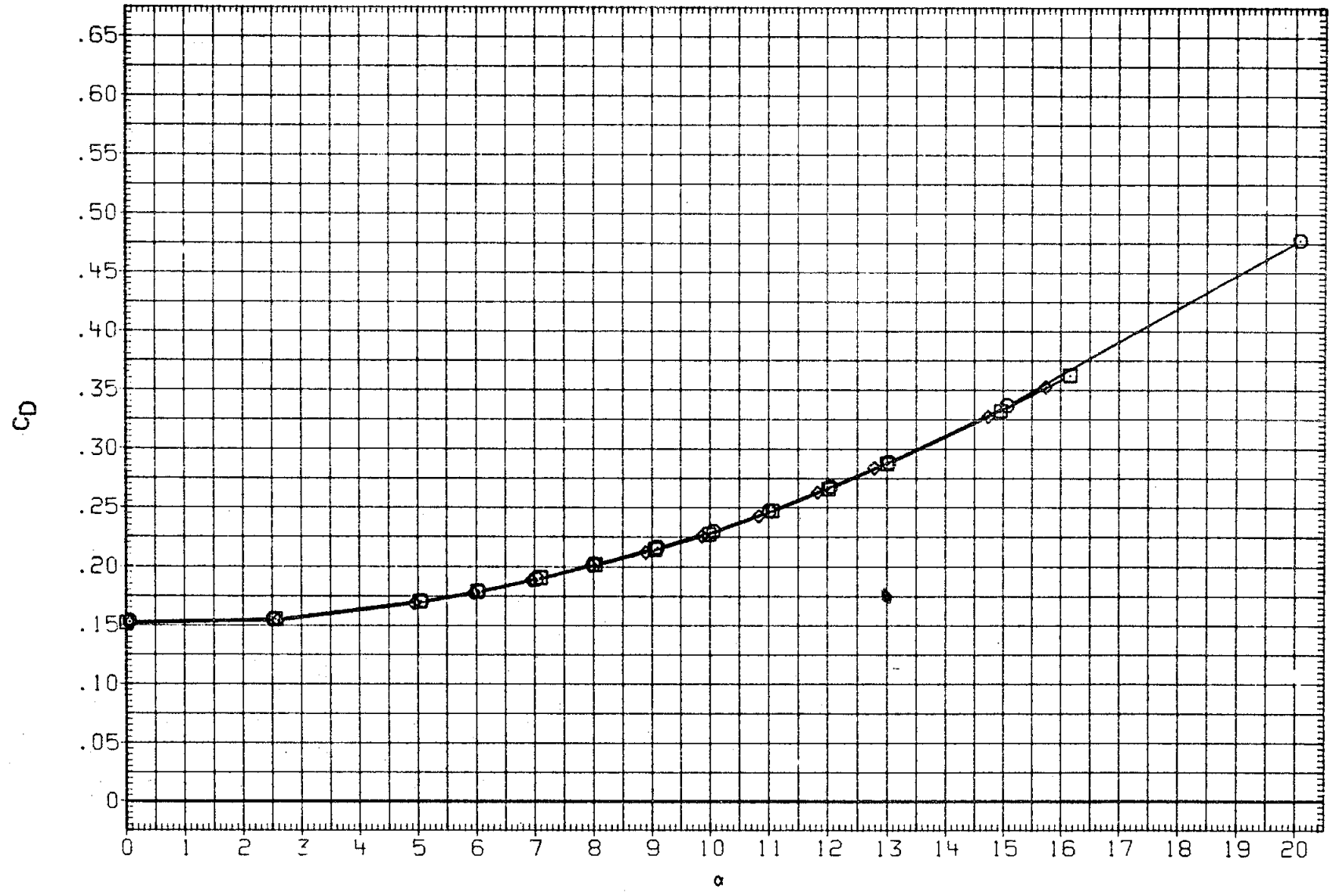

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(N)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0003	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0004	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	.000

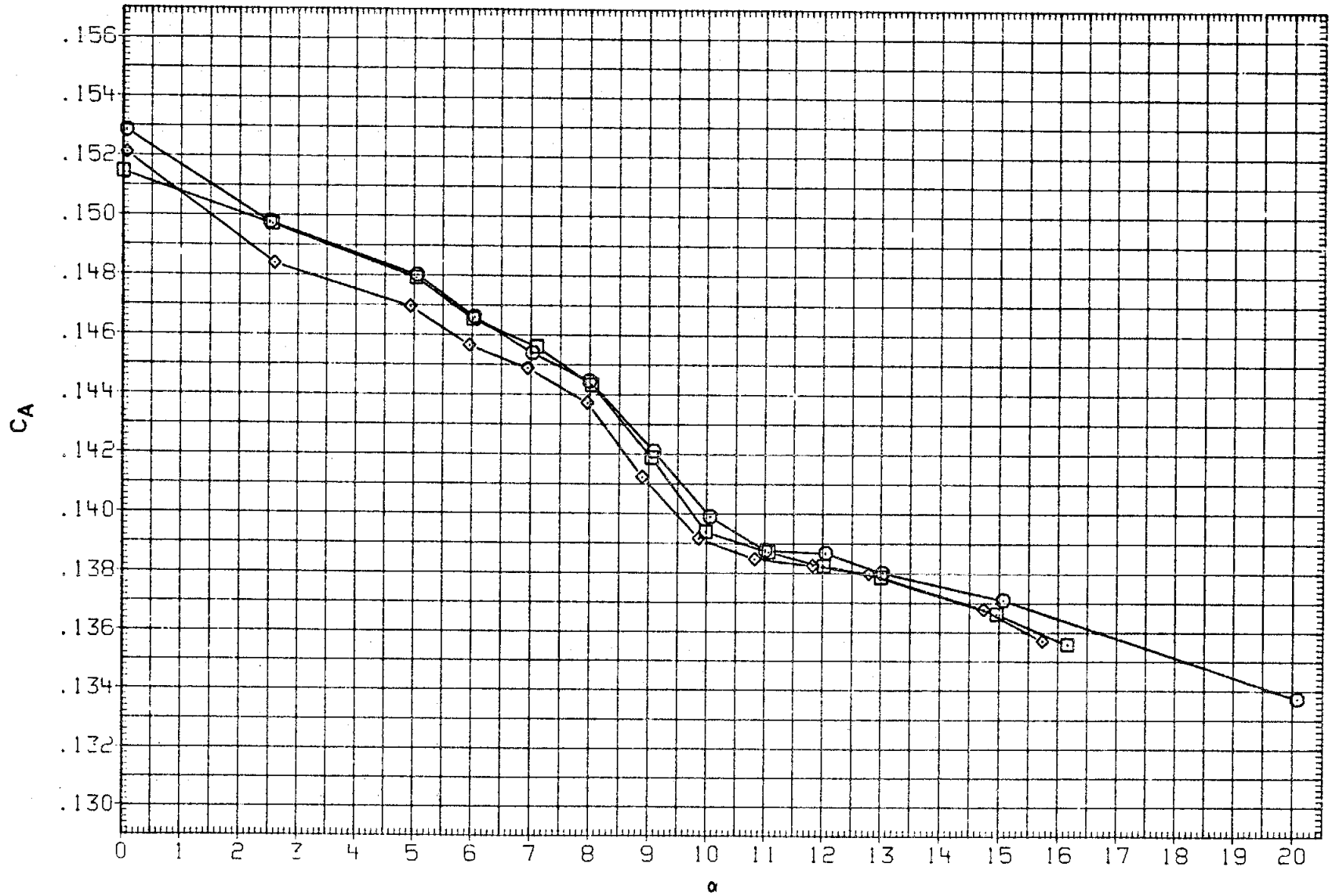

FIGURE 11. BASIC LONGITUDINAL, STING SHROUD EFFECTS

(N)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
RK0026	□	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	90.000

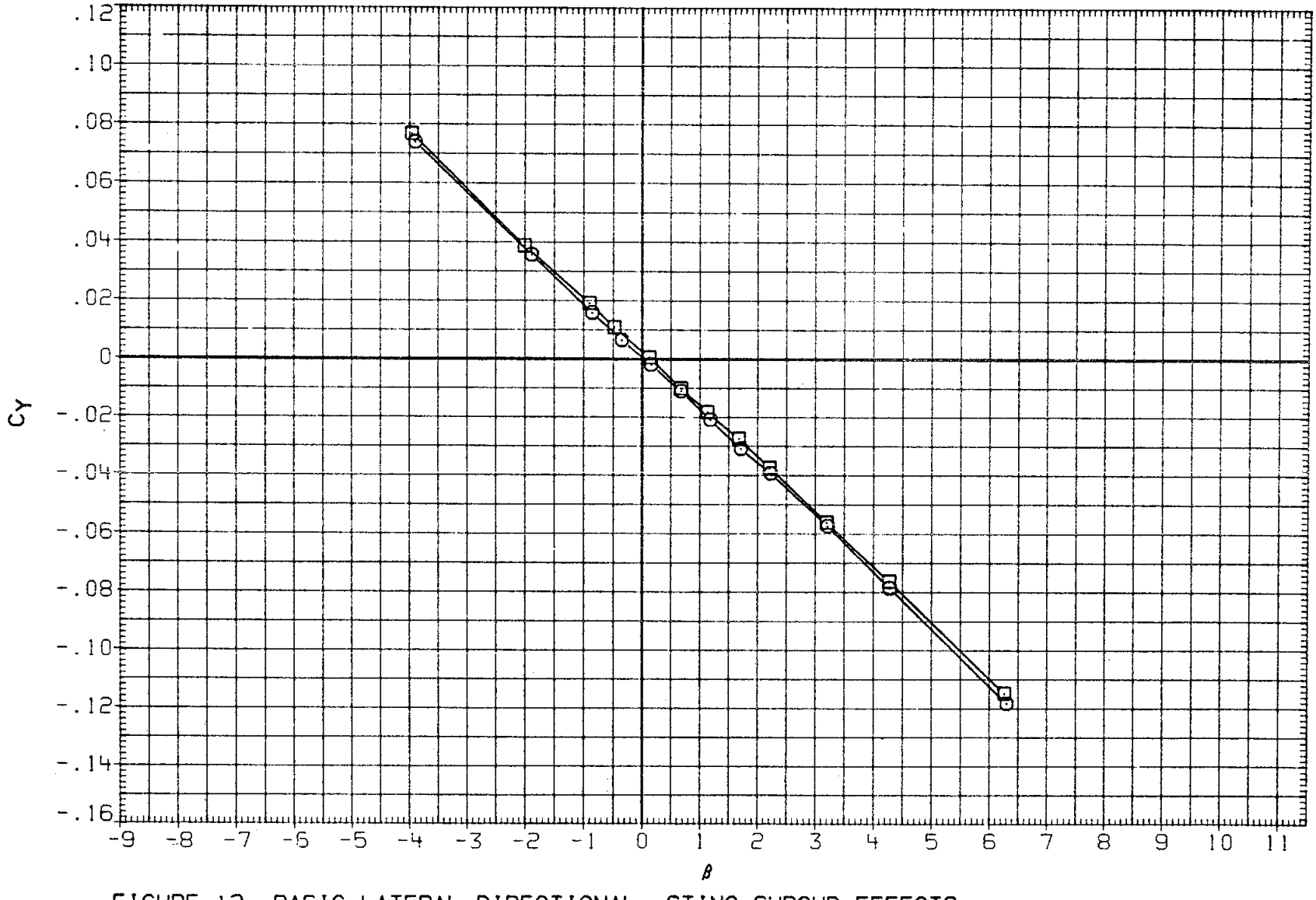

FIGURE 12. BASIC LATERAL-DIRECTIONAL, STING SHROUD EFFECTS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
RK0026	□	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	90.000

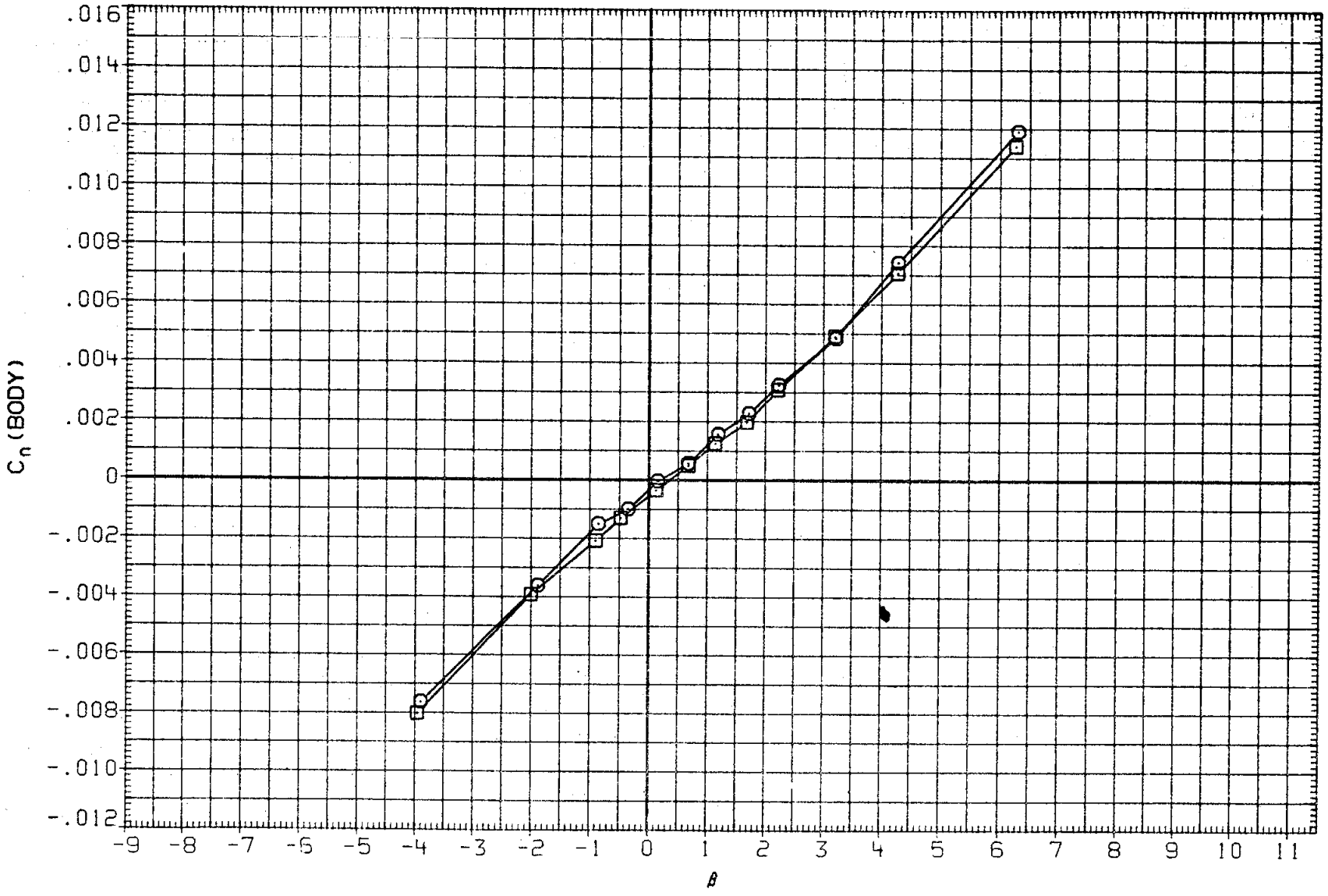

FIGURE 12. BASIC LATERAL-DIRECTIONAL, STING SHROUD EFFECTS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
RK0026	□	LARC 16FT TWT 325(0A270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	90.000

FIGURE 12. BASIC LATERAL-DIRECTIONAL, STING SHROUD EFFECTS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	90.000
RK0026	□	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	90.000

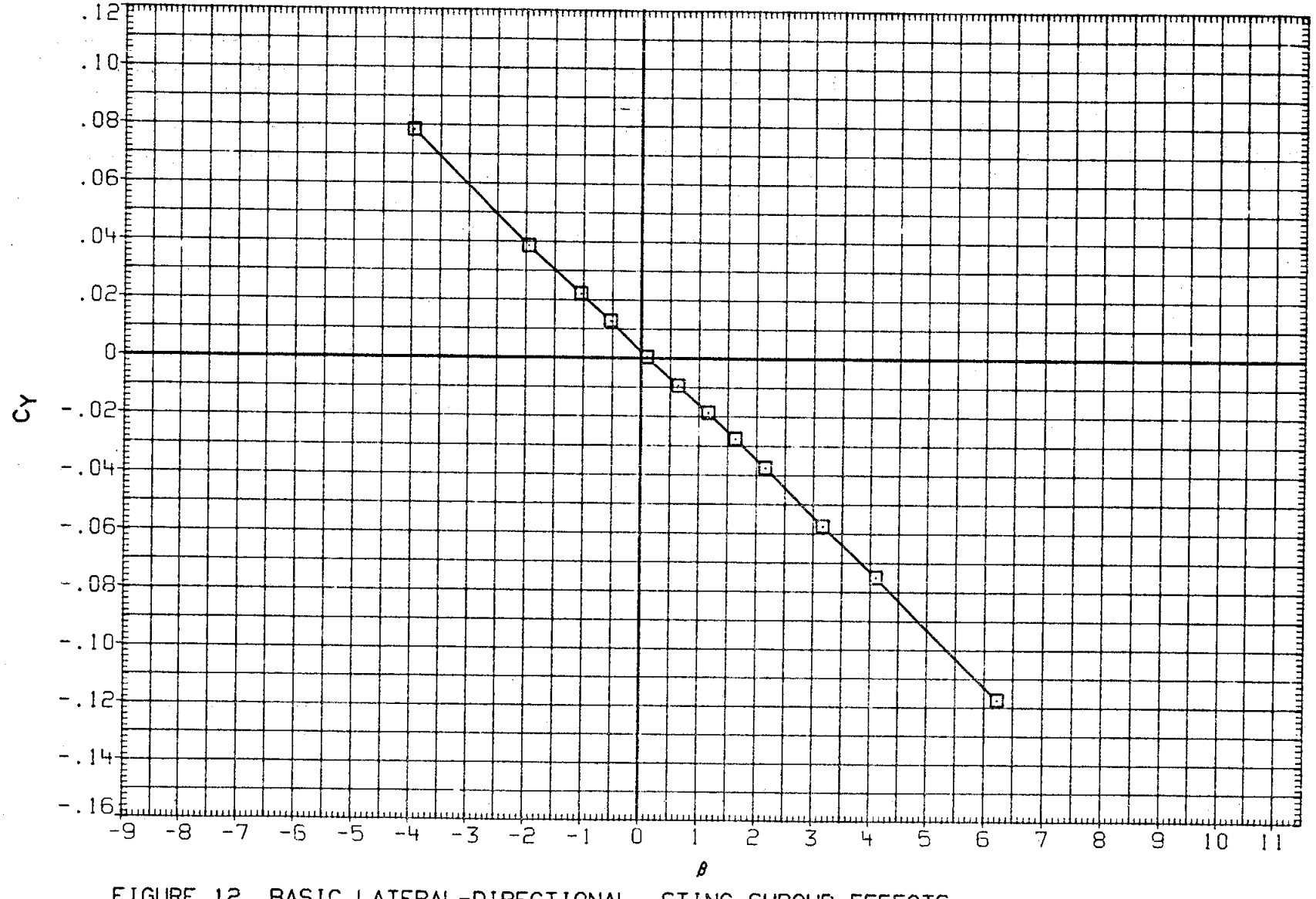

FIGURE 12. BASIC LATERAL-DIRECTIONAL, STING SHROUD EFFECTS

(B)MACH = .70

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	90.000
RK0026	□	LARC 16FT TWT 325(OA270B) 105-0 ORR, STING SHRD	.000	.000	.000	.000	25.500	-.030	90.000

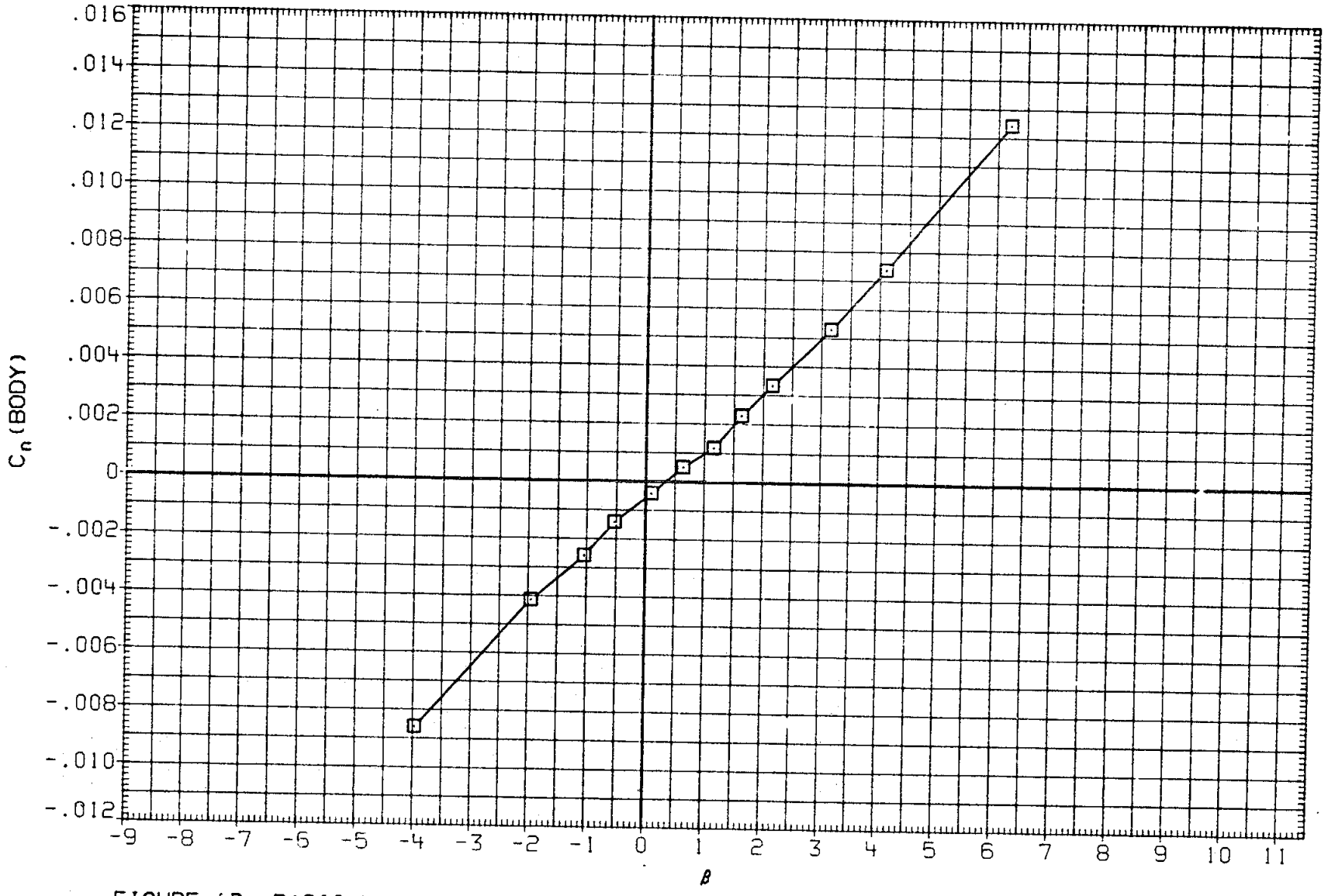

FIGURE 12. BASIC LATERAL-DIRECTIONAL, STING SHROUD EFFECTS

(B) MACH = .70

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	90.000
RK0026	□	LARC 16FT TWT 325(OA270B) 105-0 ORR. STING SHRD	.000	.000	.000	.000	25.500	-.030	90.000

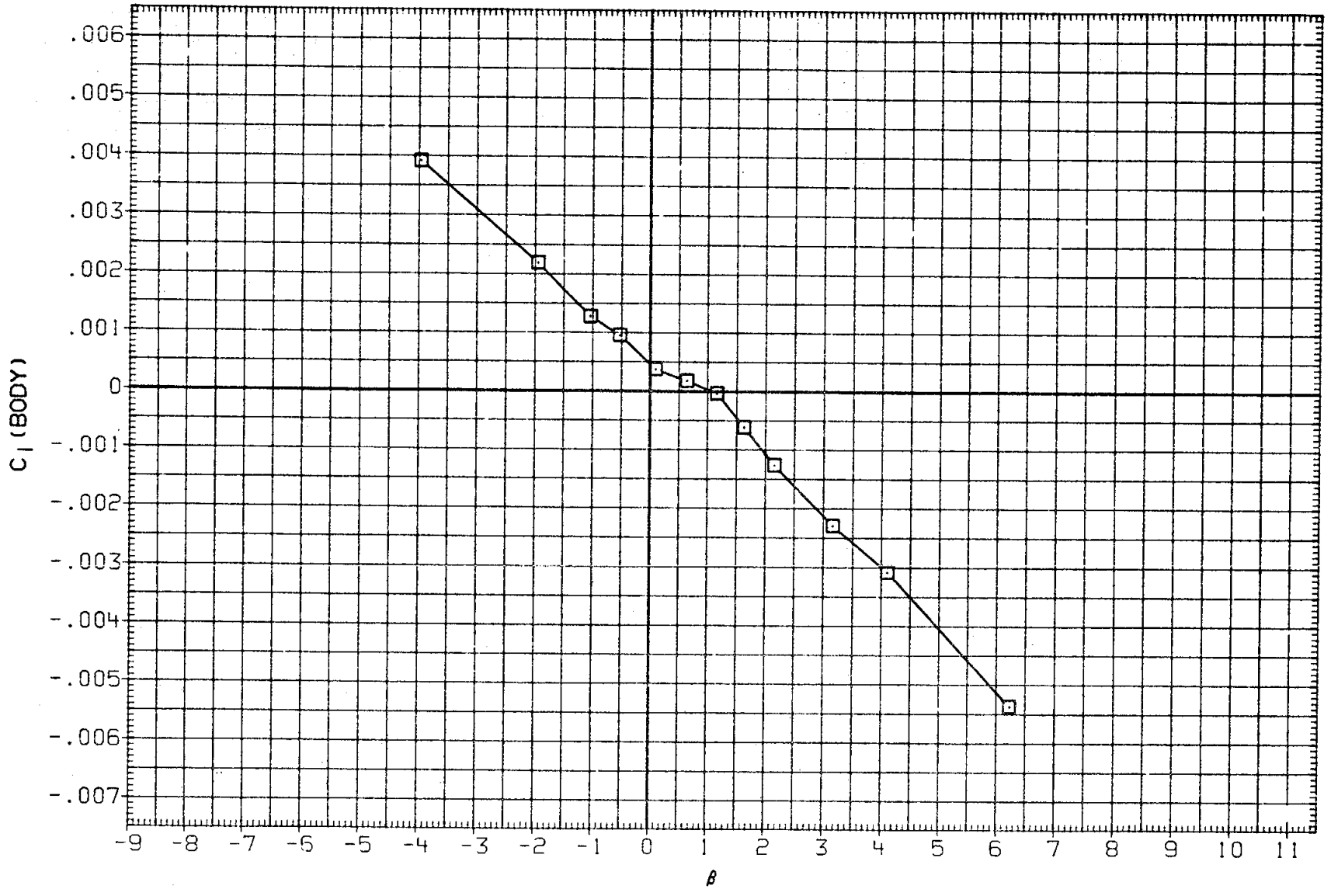

FIGURE 12. BASIC LATERAL-DIRECTIONAL, STING SHROUD EFFECTS

(B)MACH = .70

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
RK0026	□	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	90.000

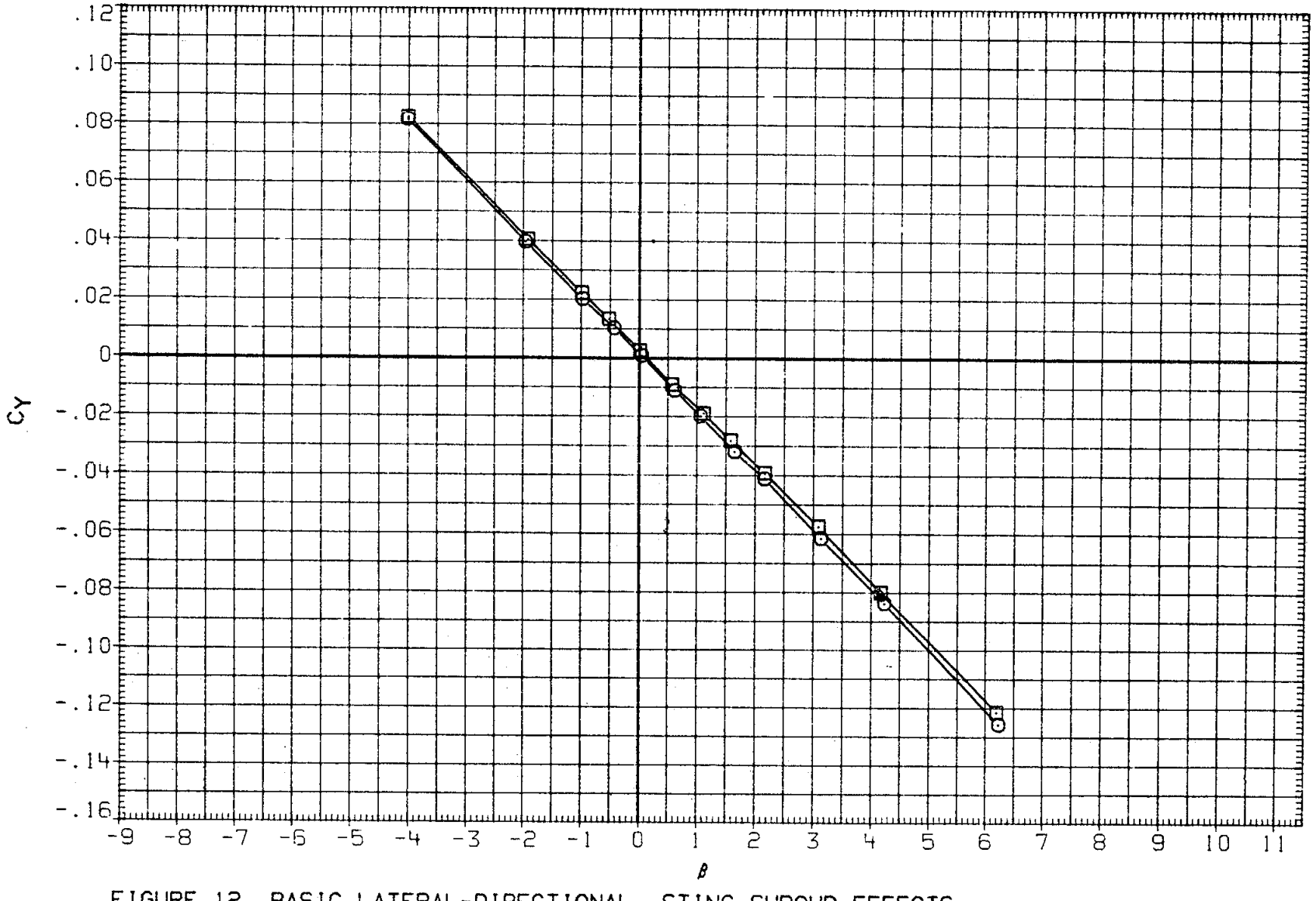

FIGURE 12. BASIC LATERAL-DIRECTIONAL, STING SHROUD EFFECTS

(C)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
RK0026	□	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	90.000

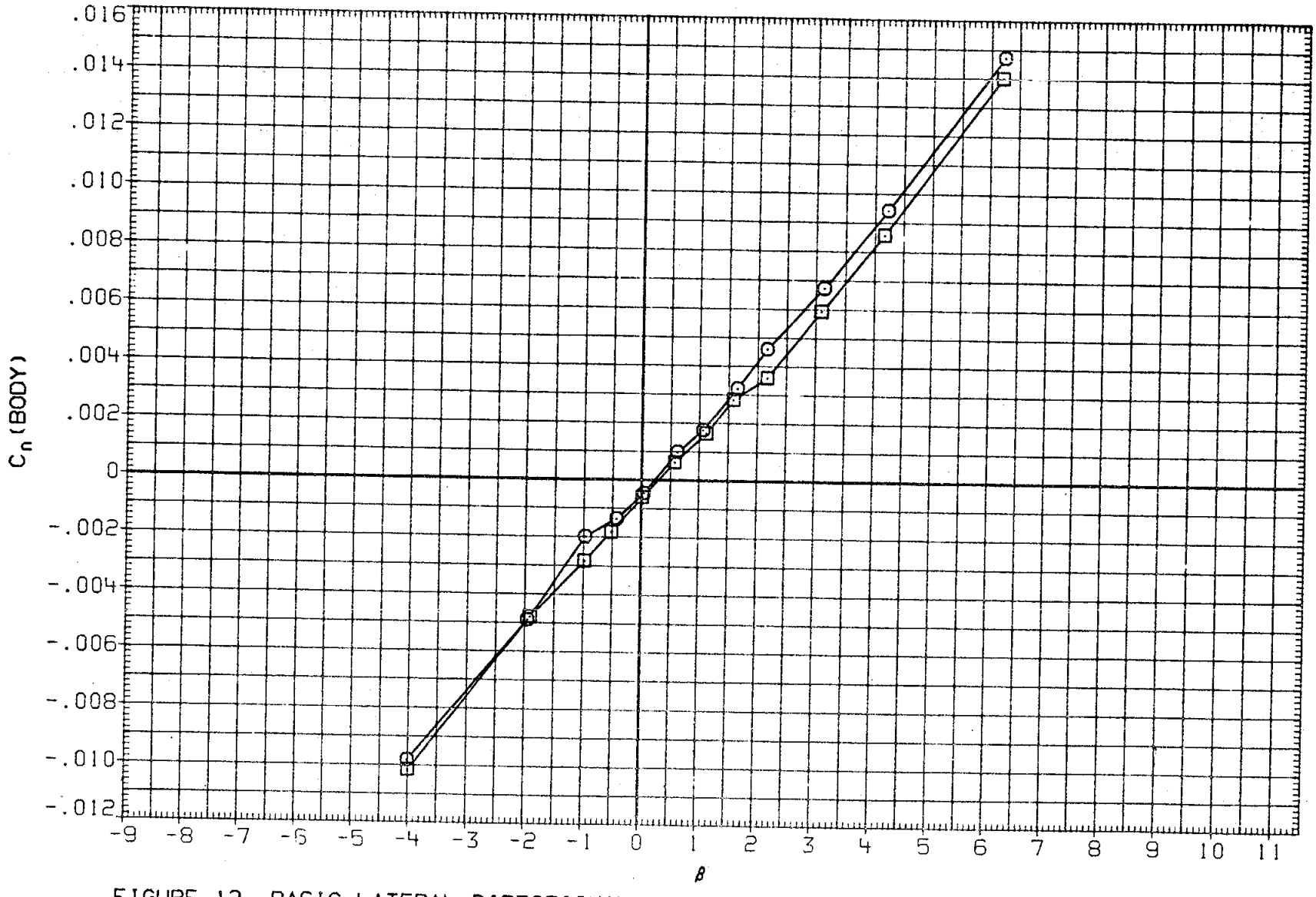

FIGURE 12. BASIC LATERAL-DIRECTIONAL, STING SHROUD EFFECTS

(C)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
RK0026	□	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	90.000

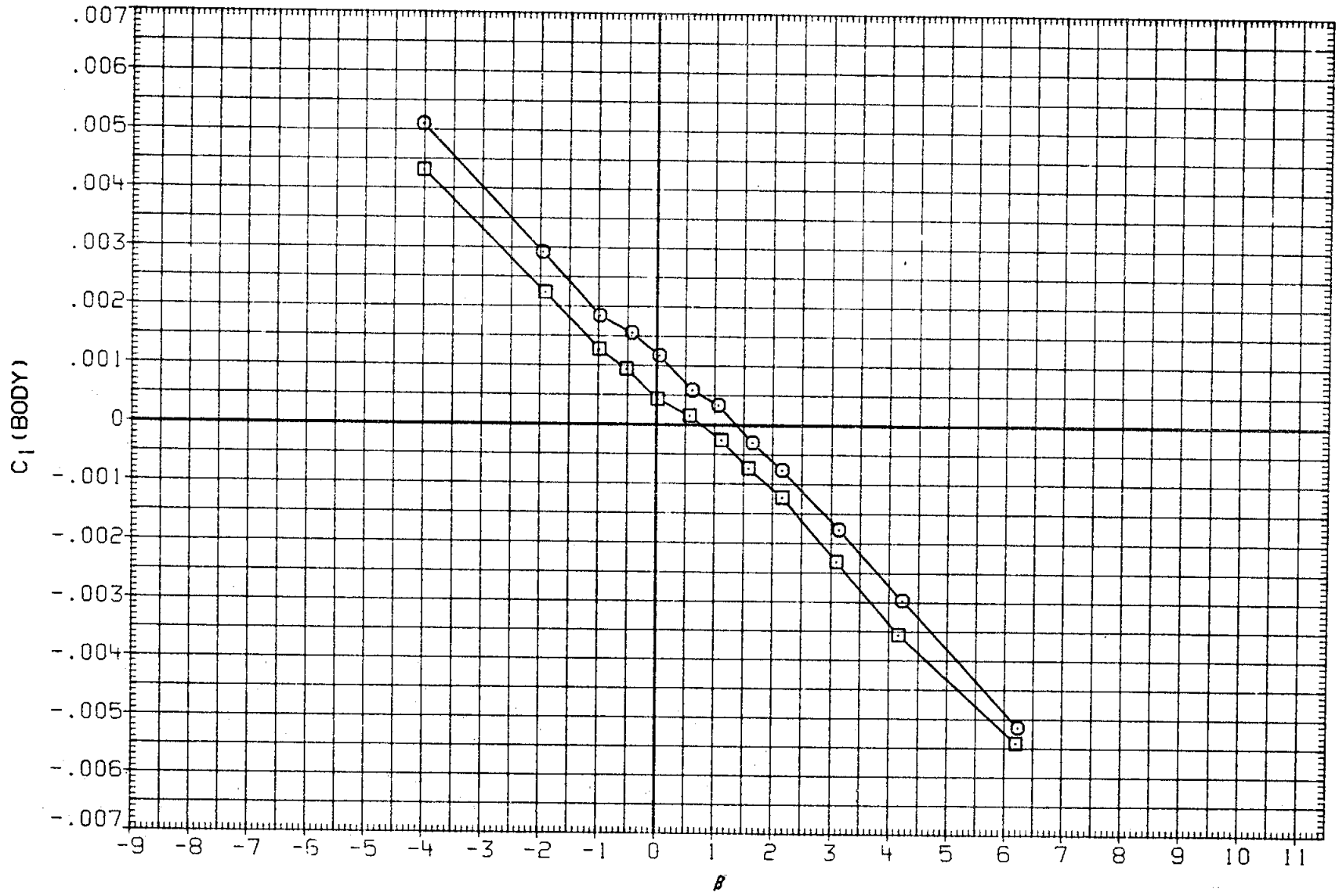

FIGURE 12. BASIC LATERAL-DIRECTIONAL, STING SHROUD EFFECTS

(C)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
RK0026	□	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	90.000

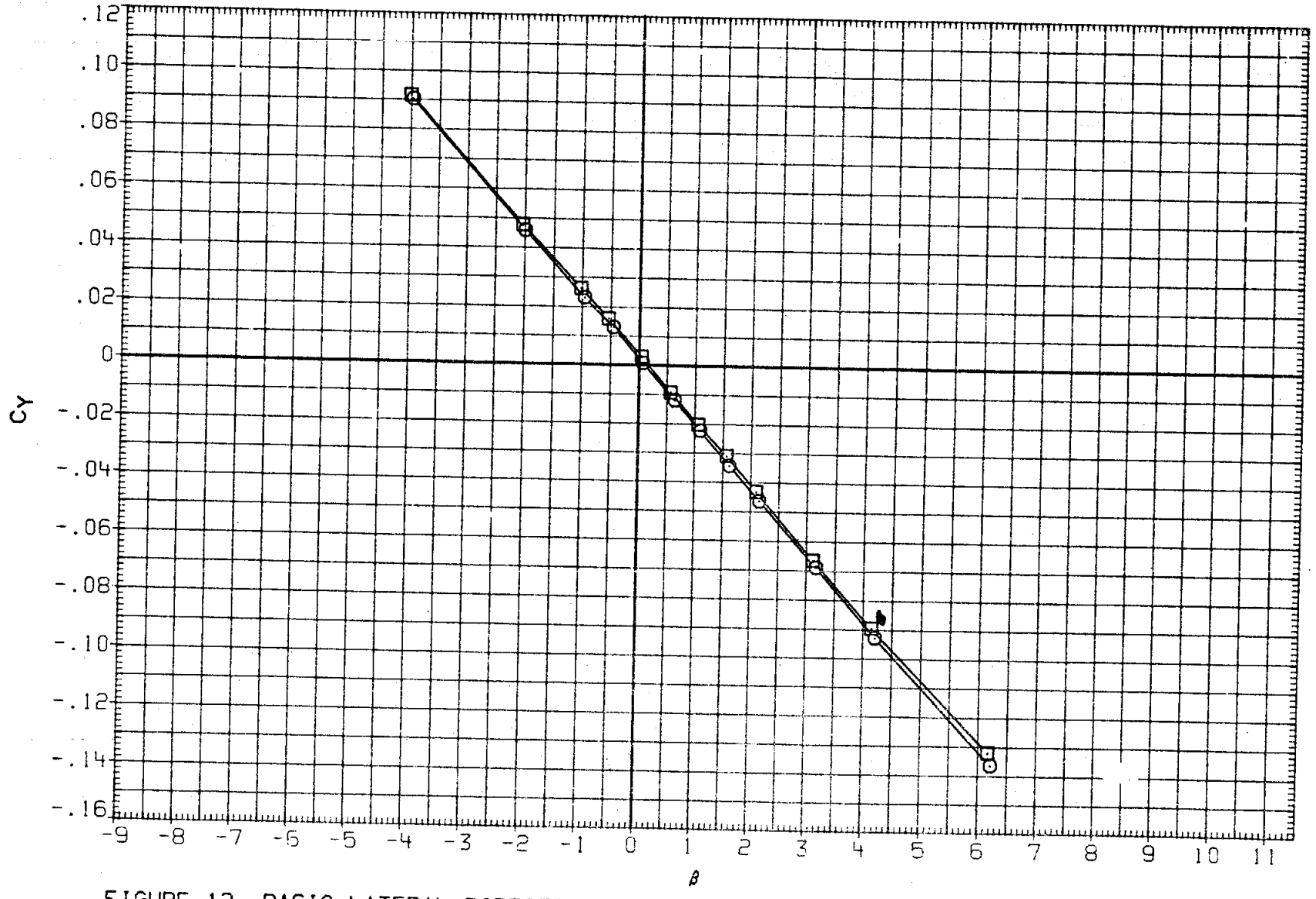

FIGURE 12. BASIC LATERAL-DIRECTIONAL, STING SHROUD EFFECTS

(D)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
RK0026	□	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	90.000

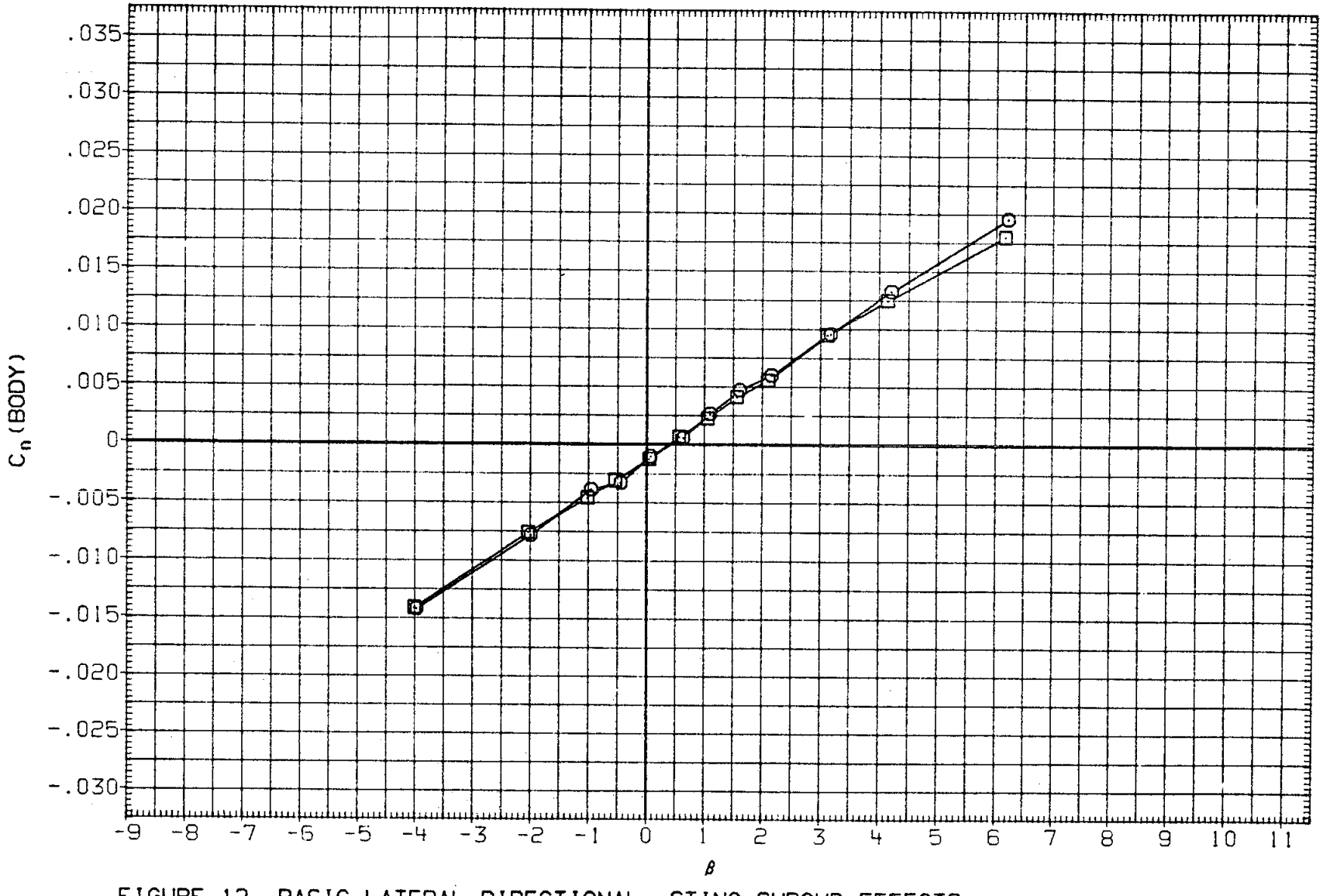

FIGURE 12. BASIC LATERAL-DIRECTIONAL, STING SHROUD EFFECTS

(D)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
RK0026	□	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	90.000

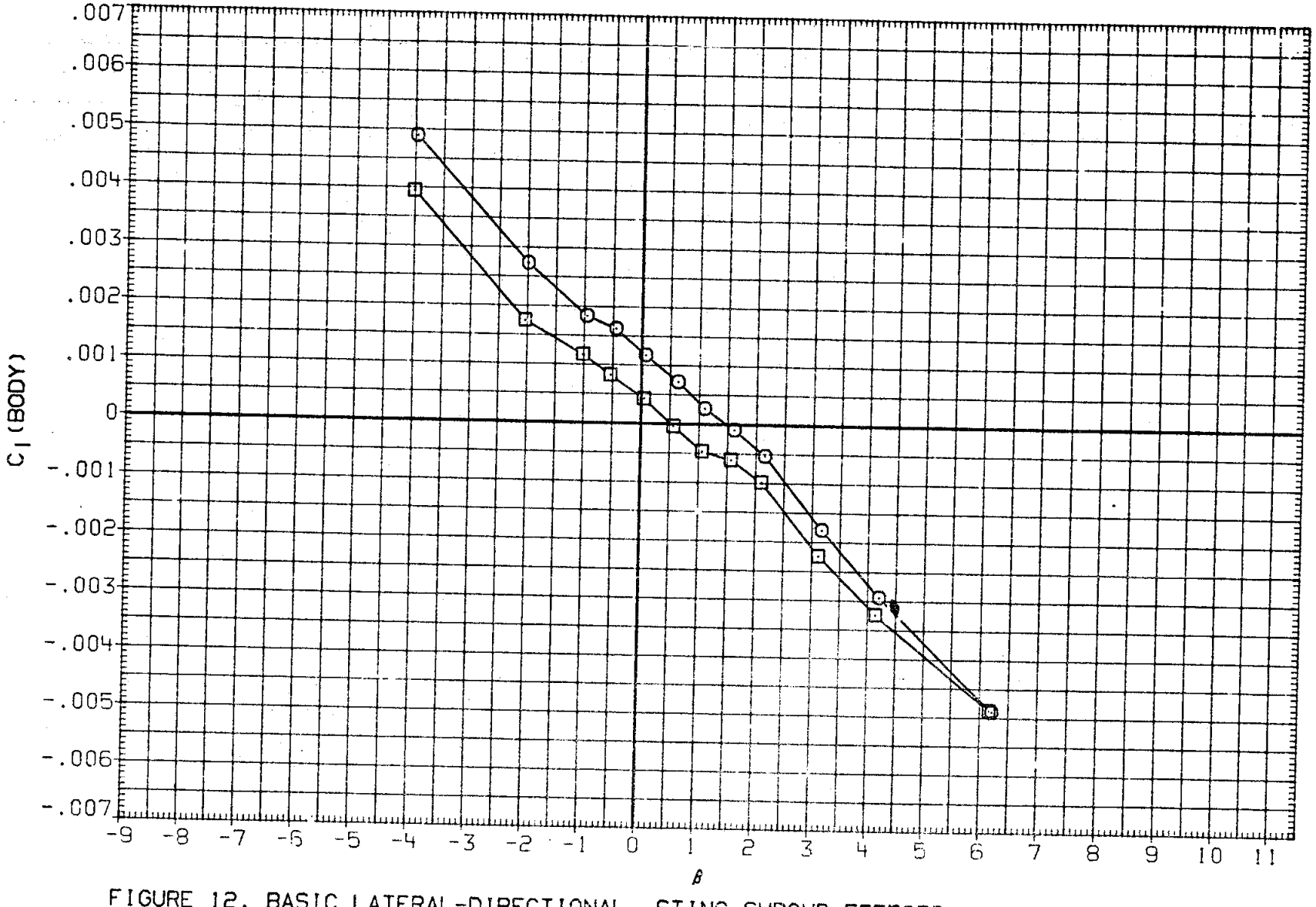

FIGURE 12. BASIC LATERAL-DIRECTIONAL, STING SHROUD EFFECTS

(D)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	90.000
RK0026	□	LARC 16FT TWT 325(OA270B) 105-0 ORR. STING SHRD	.000	.000	.000	.000	25.500	-.030	90.000

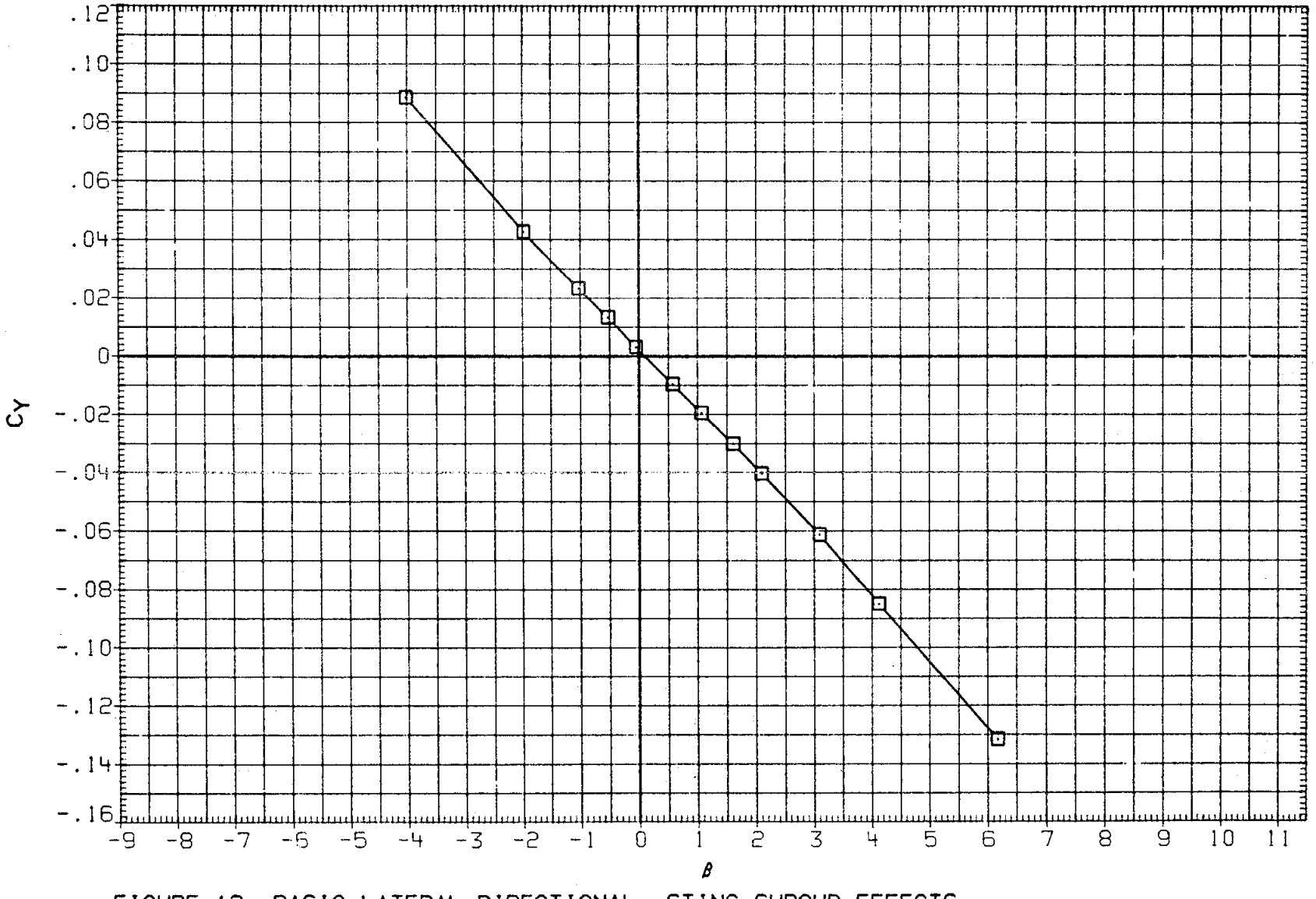

FIGURE 12. BASIC LATERAL-DIRECTIONAL, STING SHROUD EFFECTS

(E)MACH = .92

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	90.000
RK0026	□	LARC 16FT TWT 3251(0A270B) 105-0 ORR. STING SHRD	.000	.000	.000	.000	25.500	-.030	90.000

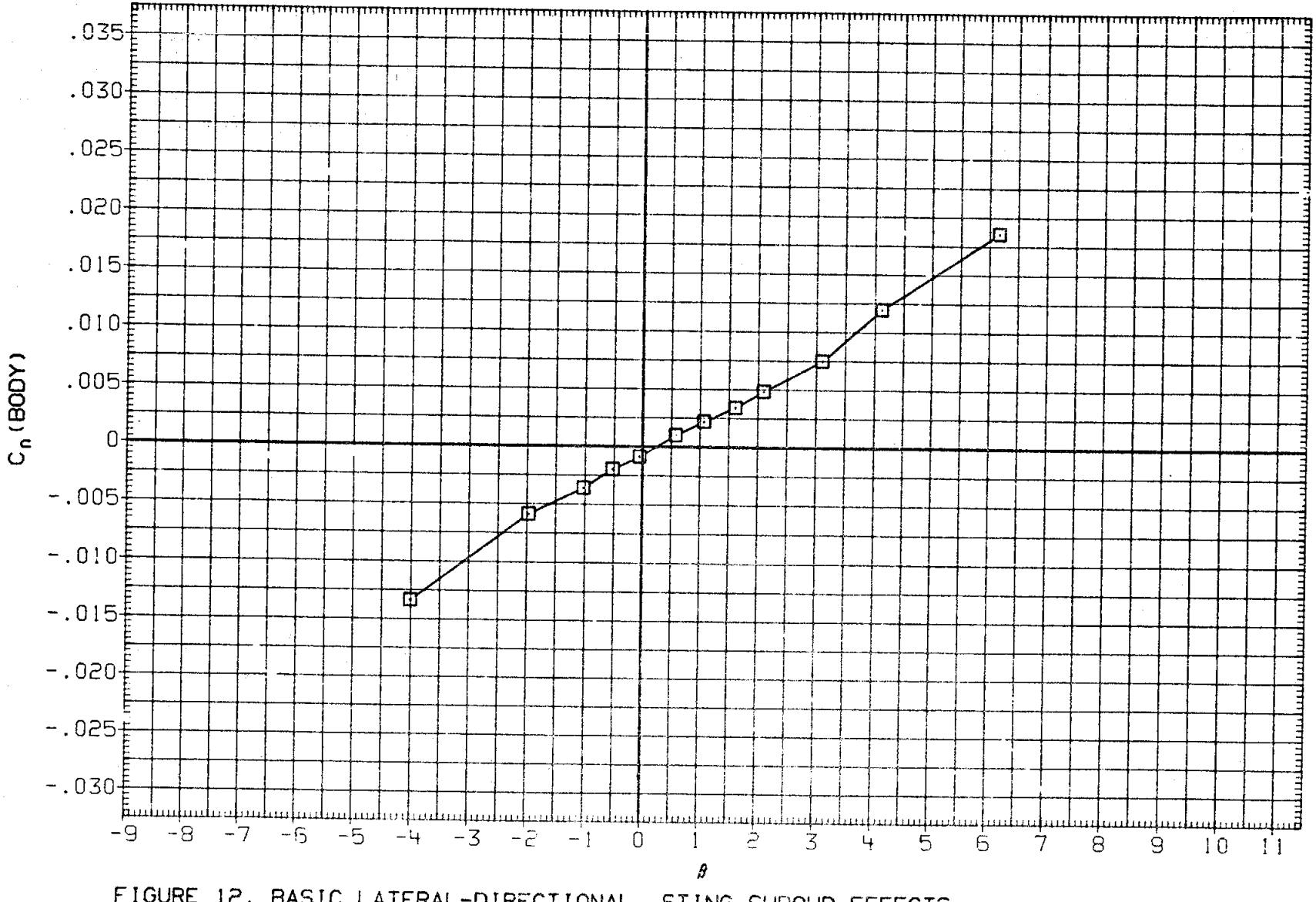

FIGURE 12. BASIC LATERAL-DIRECTIONAL, STING SHROUD EFFECTS

(E)MACH = .92

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	90.000
RK0026	□	LARC 16FT TWT 325(0A270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	90.000

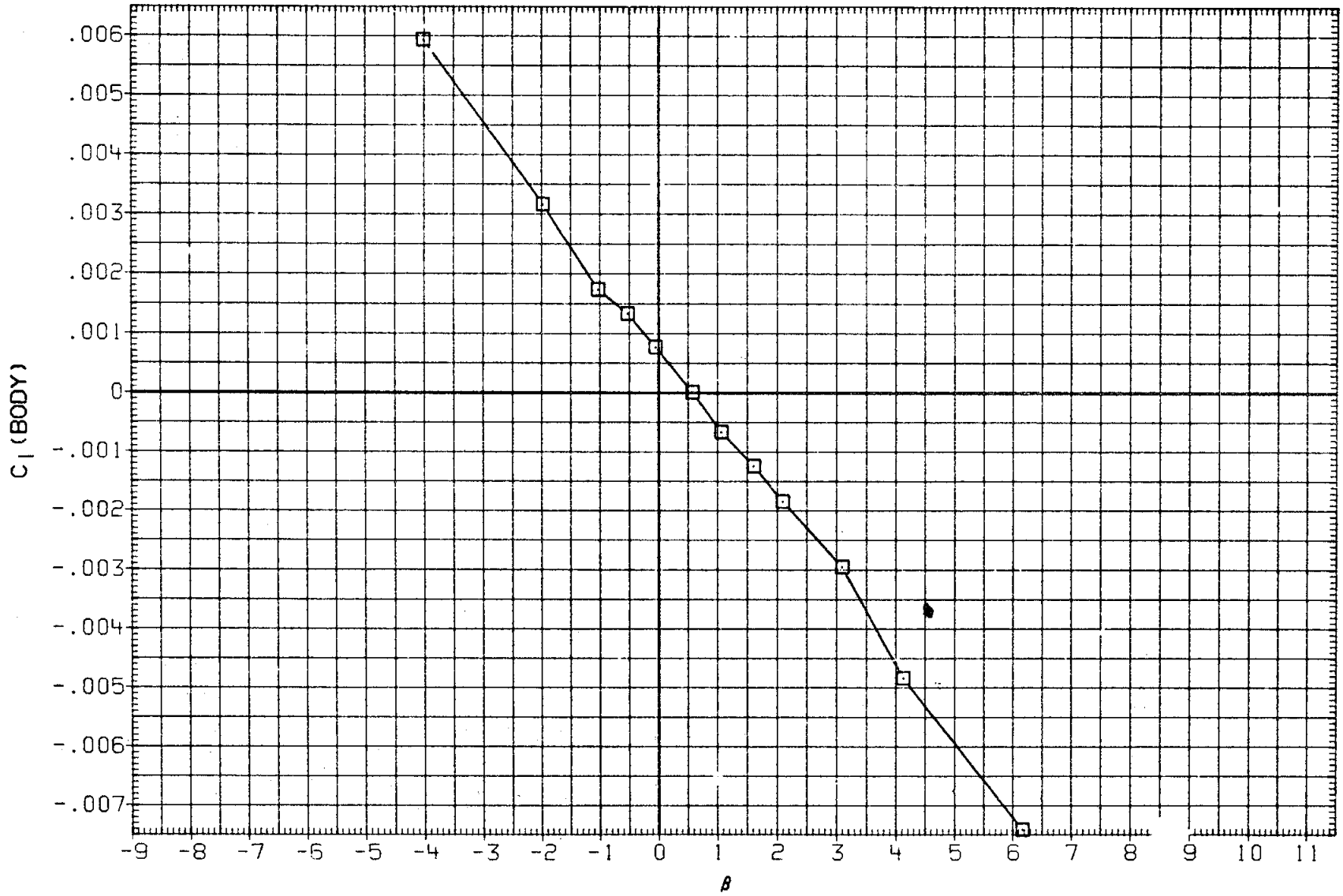

FIGURE 12. BASIC LATERAL-DIRECTIONAL, STING SHROUD EFFECTS

(E)MACH = .92

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
RK0026	□	LARC 16FT TWT 325(0A270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	90.000

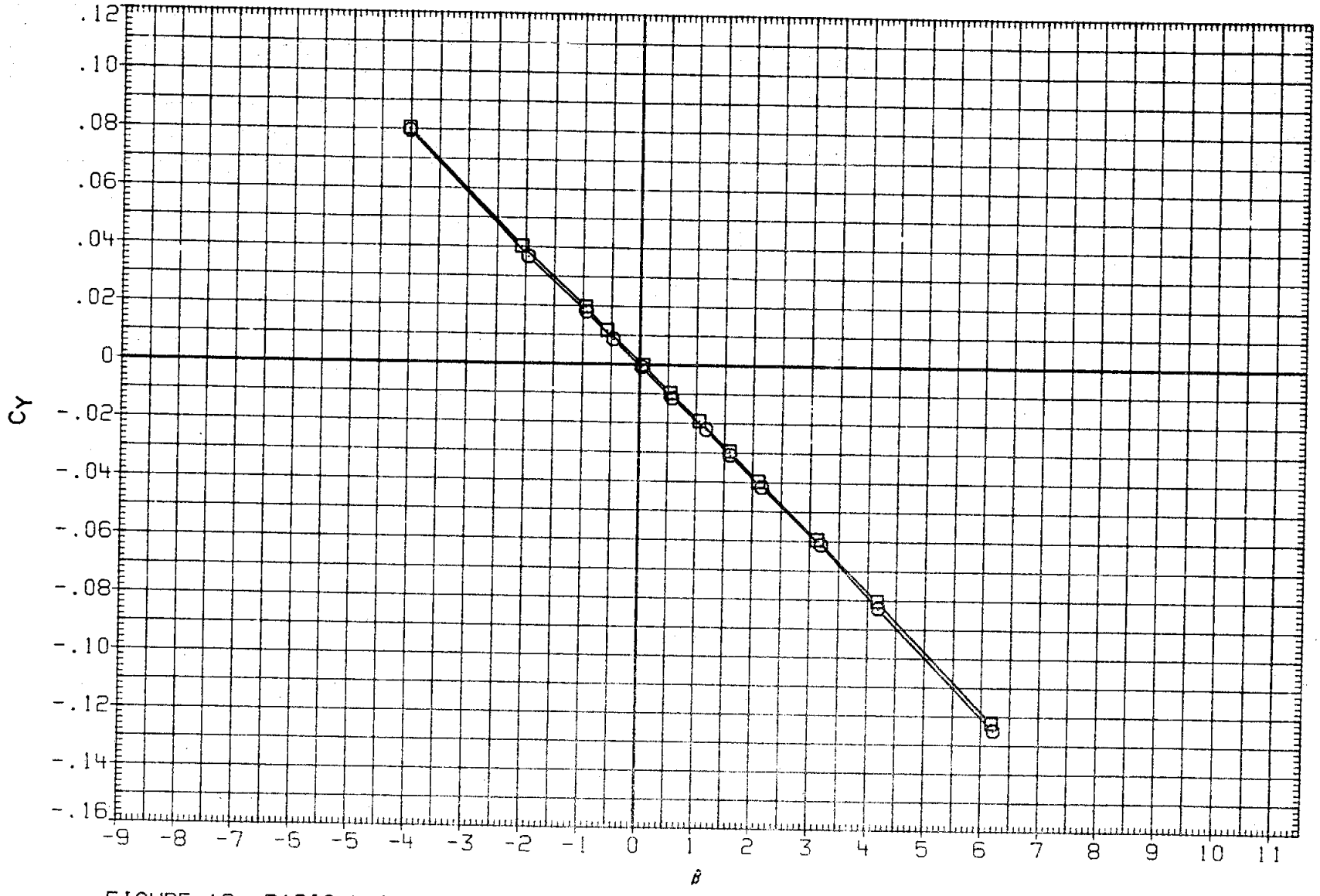

FIGURE 12. BASIC LATERAL-DIRECTIONAL, STING SHROUD EFFECTS

(F)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
RK0026	□	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	90.000

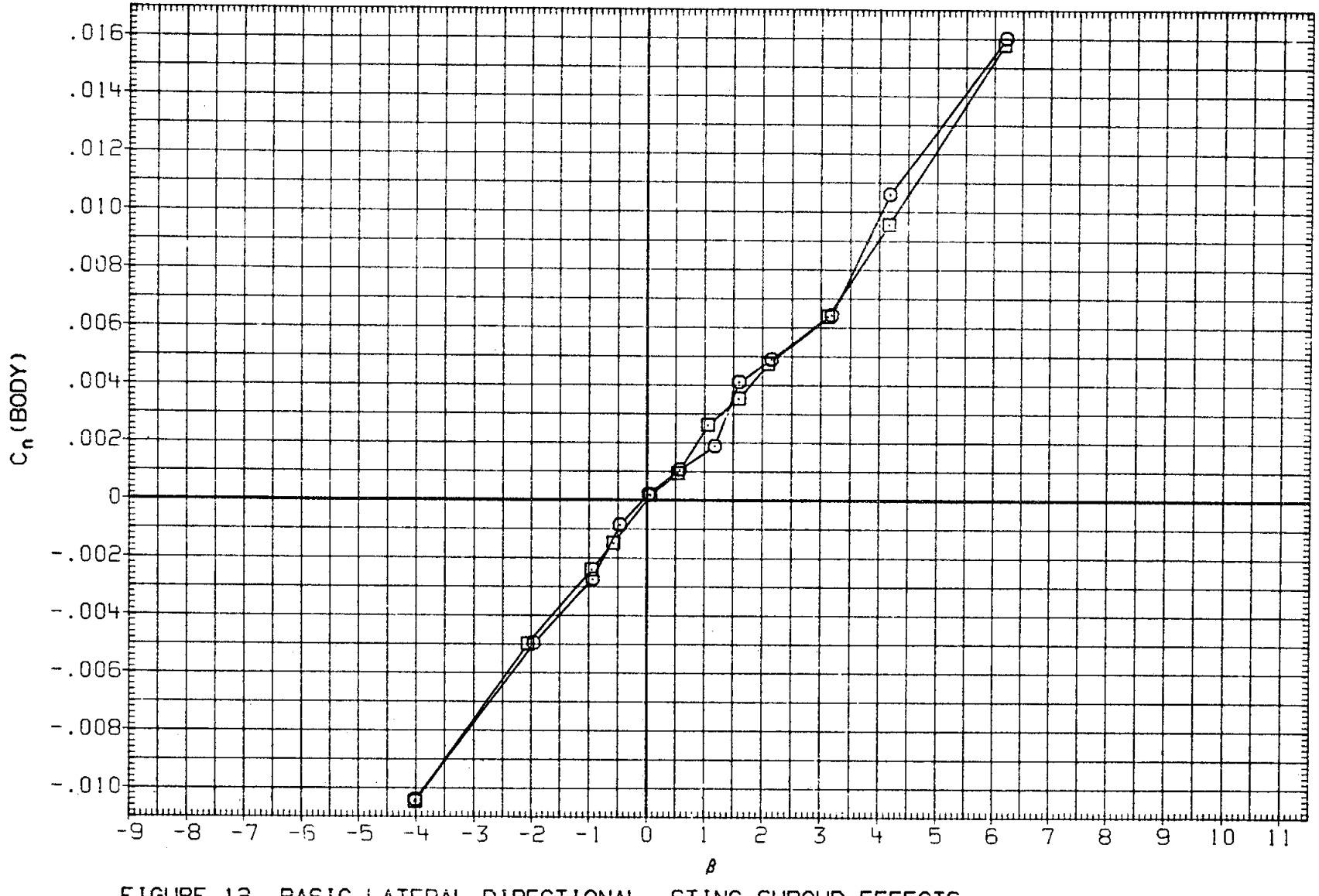

FIGURE 12. BASIC LATERAL-DIRECTIONAL, STING SHROUD EFFECTS

(F)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
RK0026	□	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	90.000

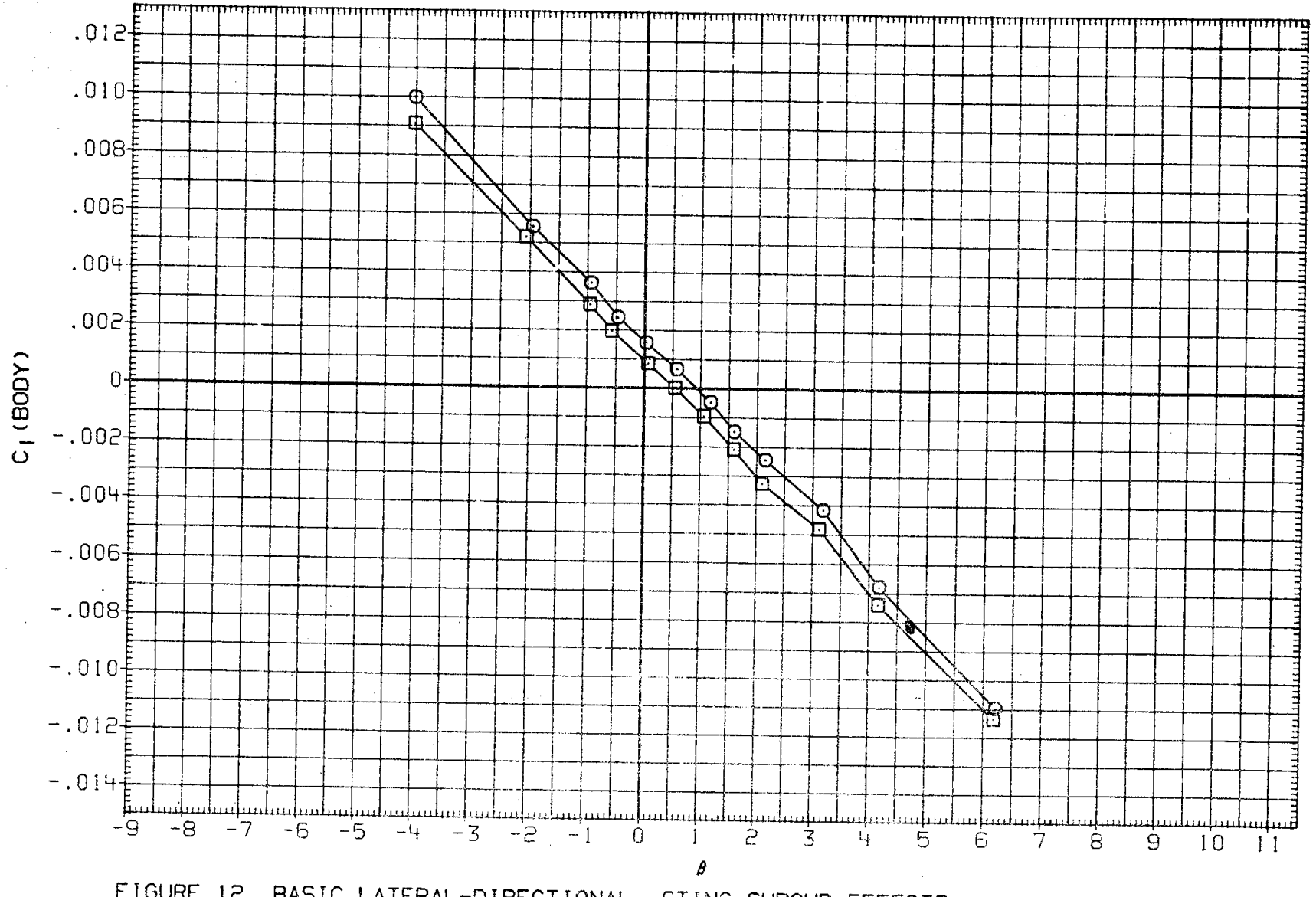

FIGURE 12. BASIC LATERAL-DIRECTIONAL, STING SHROUD EFFECTS

(F)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
RK0026	□	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	90.000

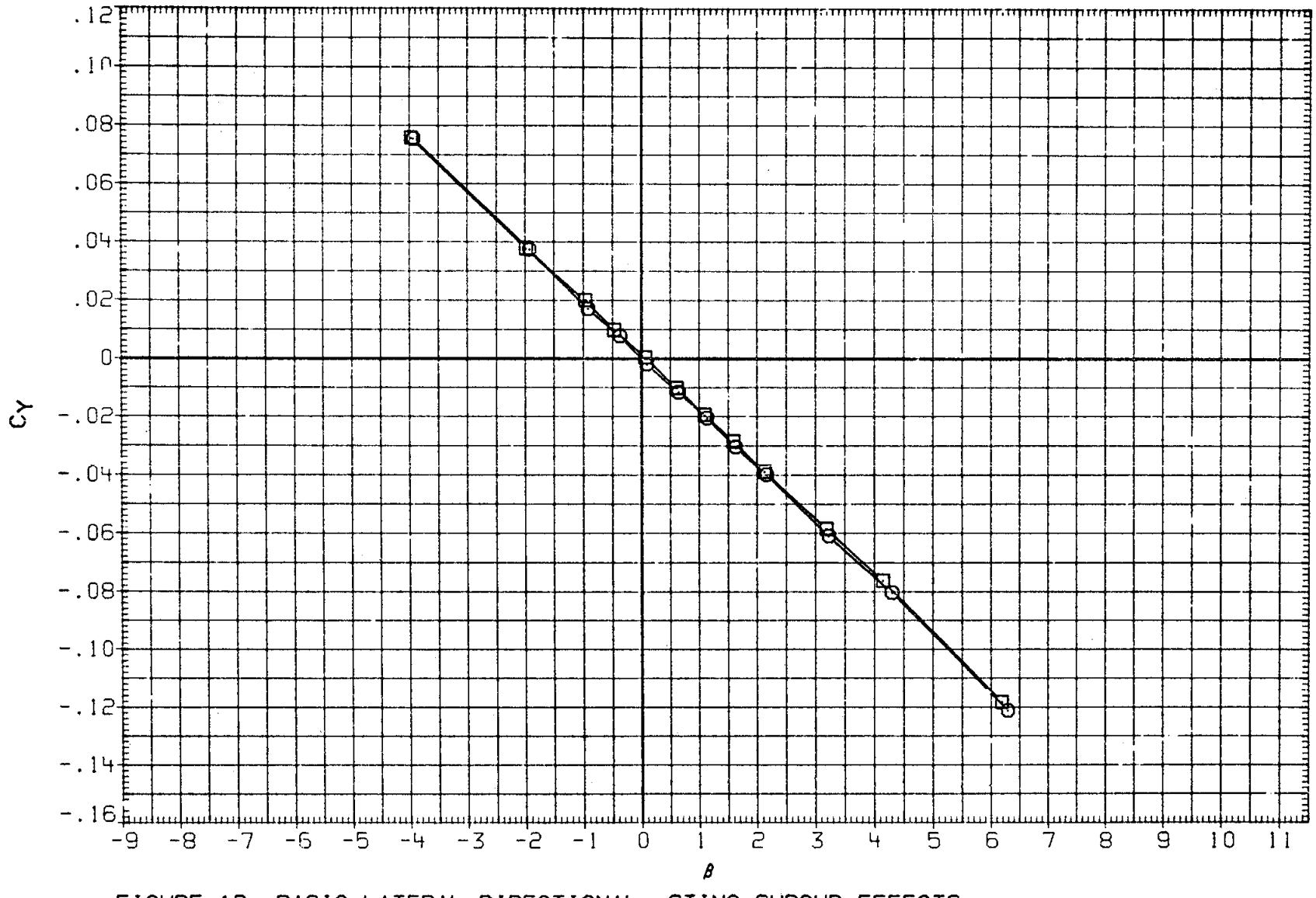

FIGURE 12. BASIC LATERAL-DIRECTIONAL, STING SHROUD EFFECTS

(G)MACH = .97

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
RK0026	□	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	90.000

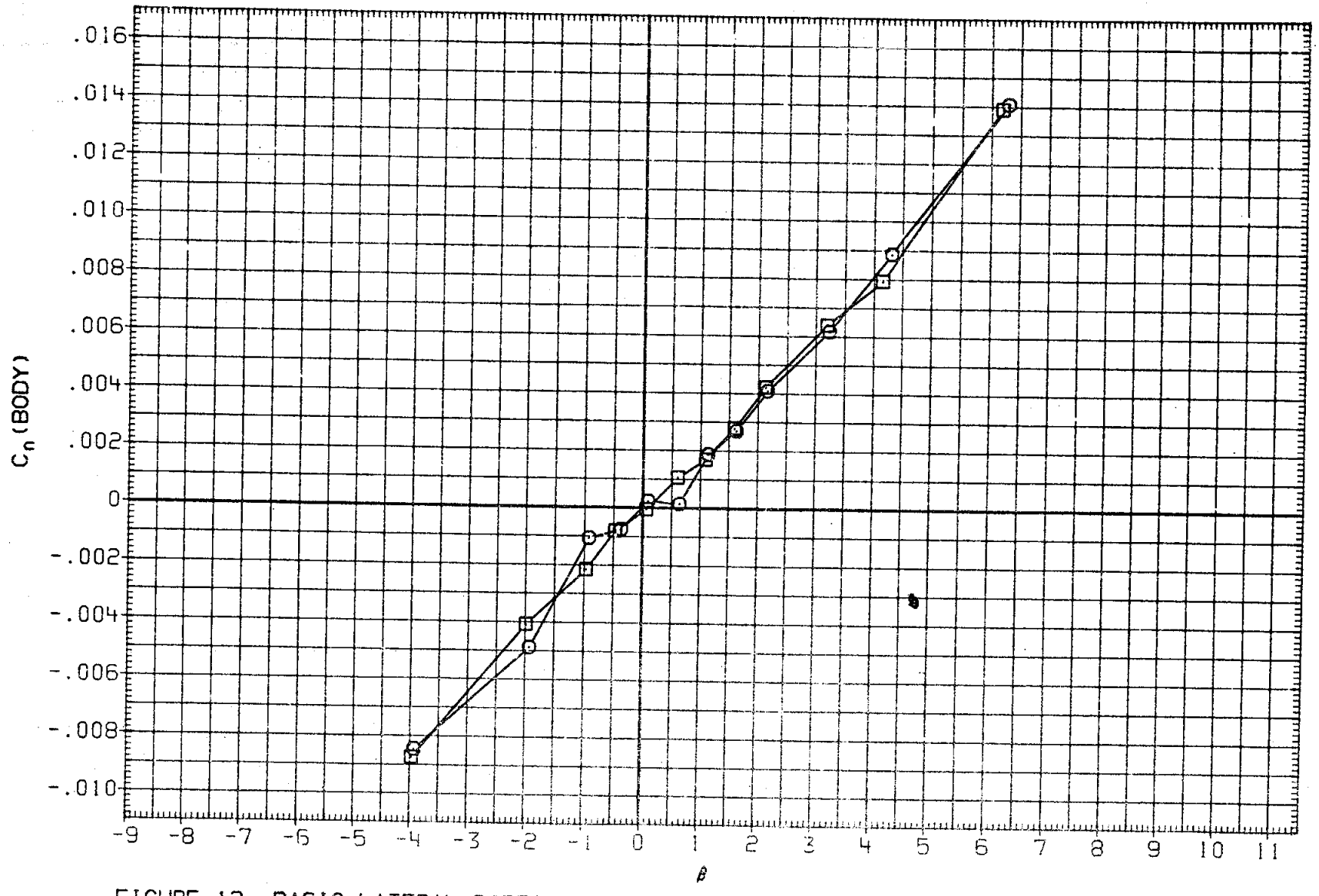

FIGURE 12. BASIC LATERAL-DIRECTIONAL, STING SHROUD EFFECTS

(G)MACH = .97

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
RK0026	□	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	90.000

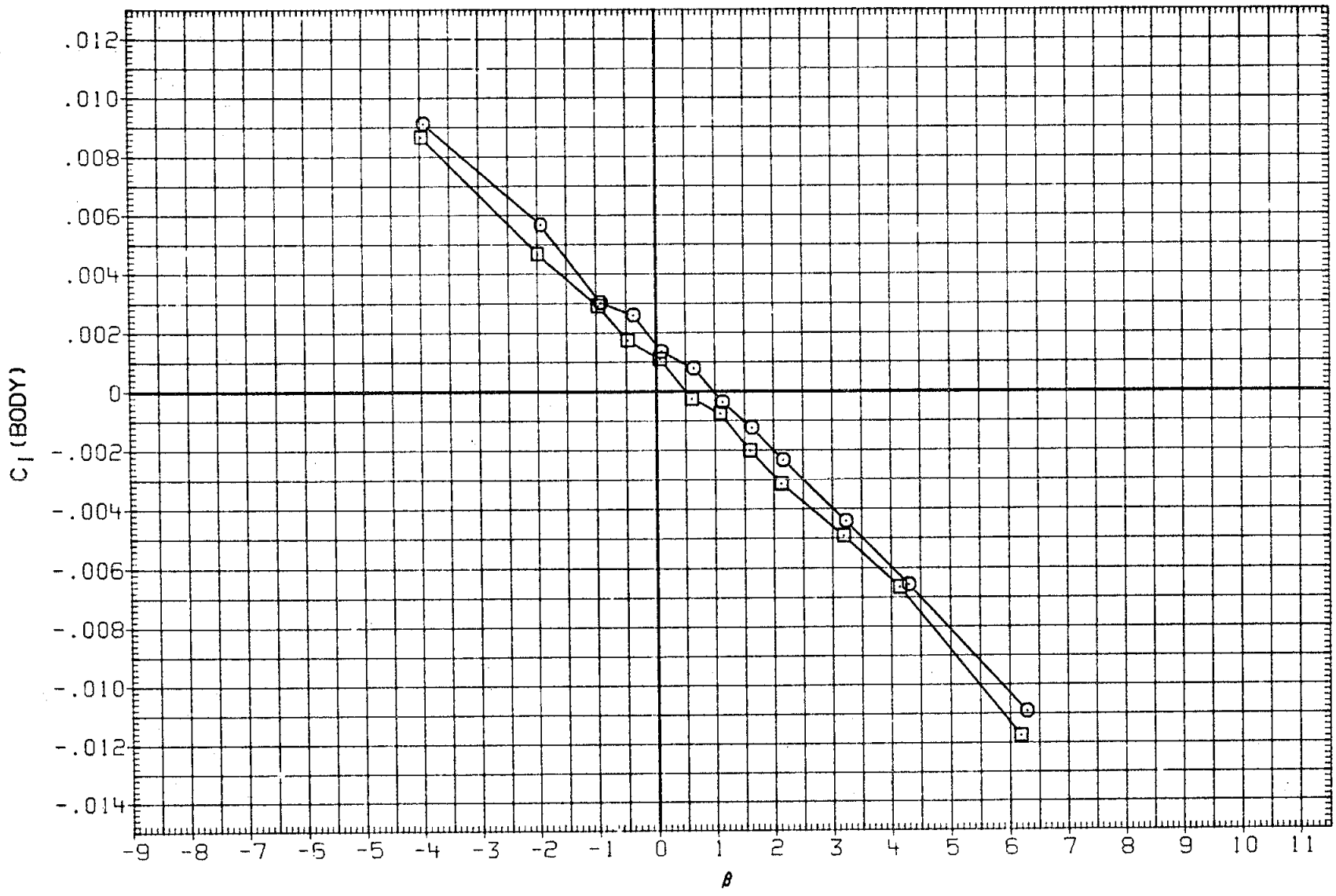

FIGURE 12. BASIC LATERAL-DIRECTIONAL, STING SHROUD EFFECTS

(G)MACH = .97

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
RK0026	□	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	90.000

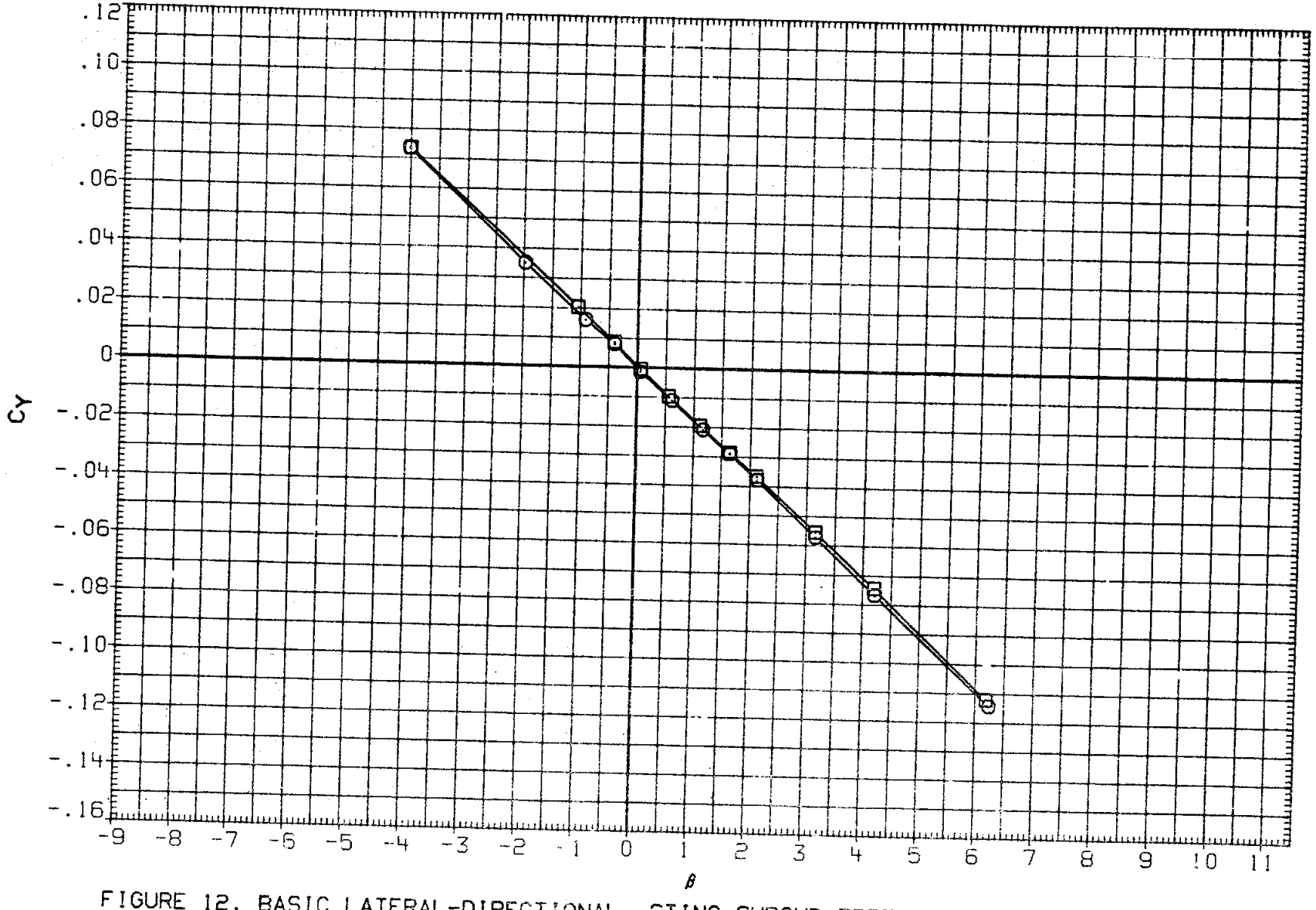

FIGURE 12. BASIC LATERAL-DIRECTIONAL, STING SHROUD EFFECTS

(H)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
RK0026	□	LARC 16FT TWT 325(0A270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	90.000

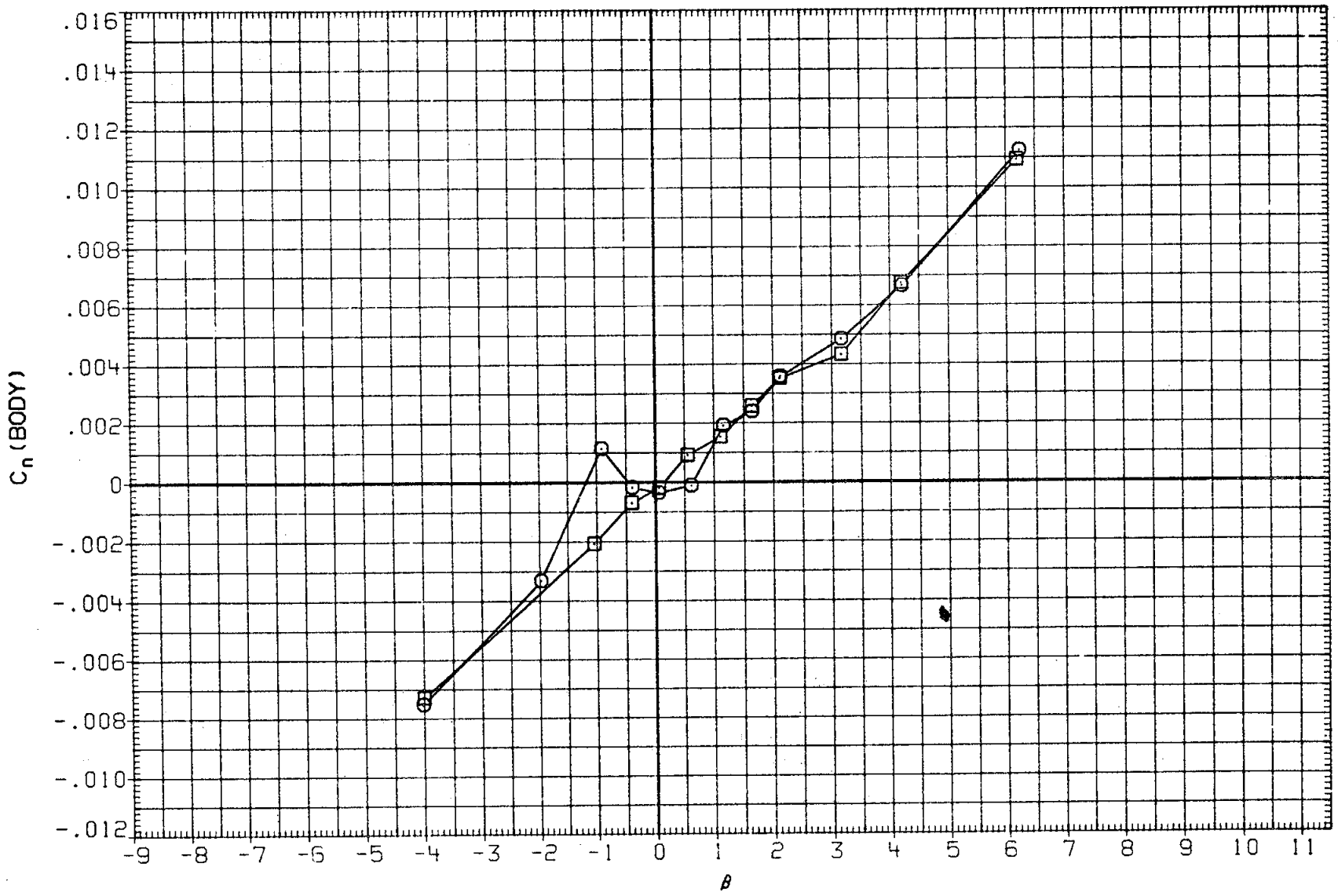

FIGURE 12. BASIC LATERAL-DIRECTIONAL, STING SHROUD EFFECTS

(H)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
RK0026	□	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	90.000

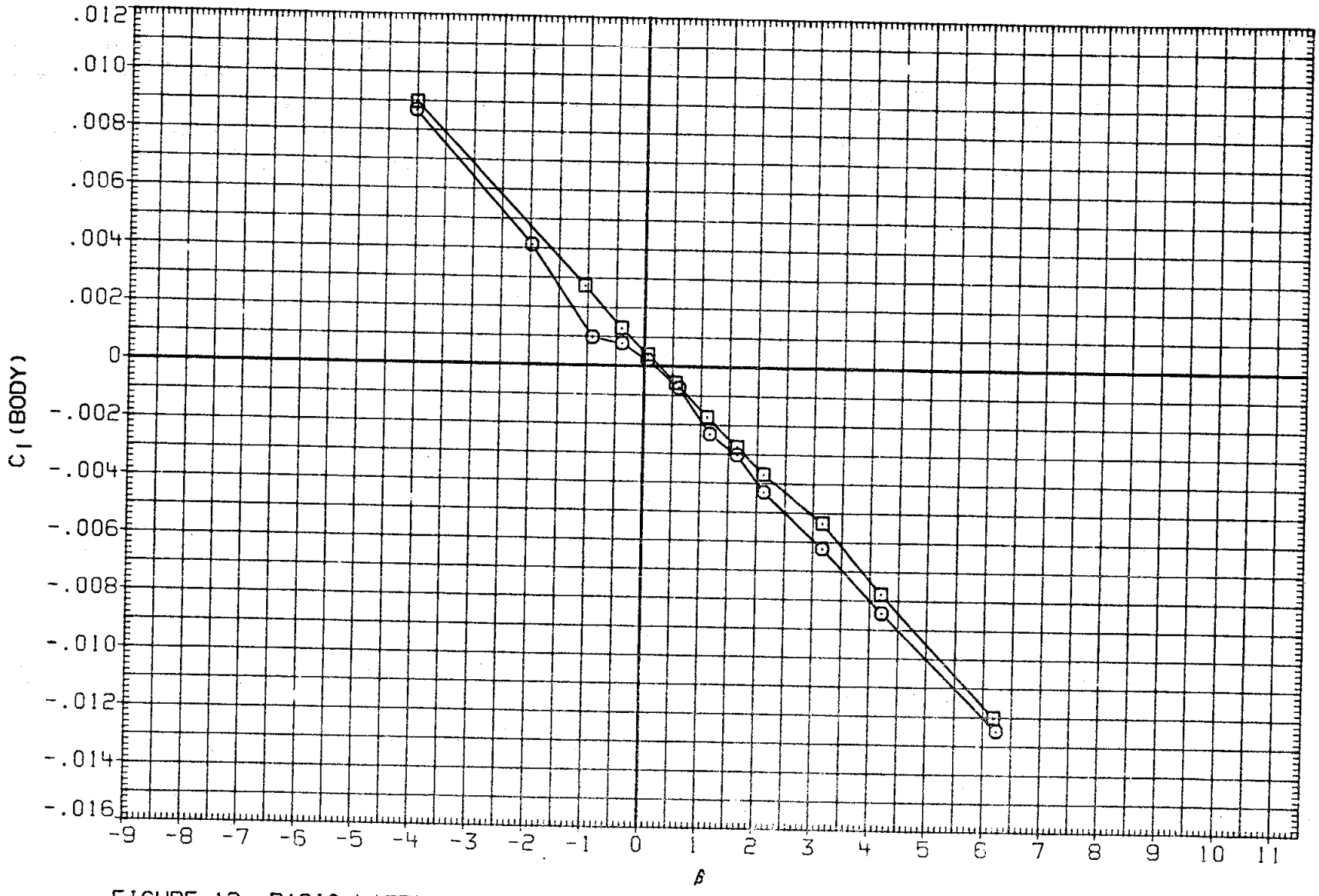

FIGURE 12. BASIC LATERAL-DIRECTIONAL, STING SHROUD EFFECTS

(H)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	90.000
RK0026	□	LARC 16FT TWT 325(0A270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	90.000

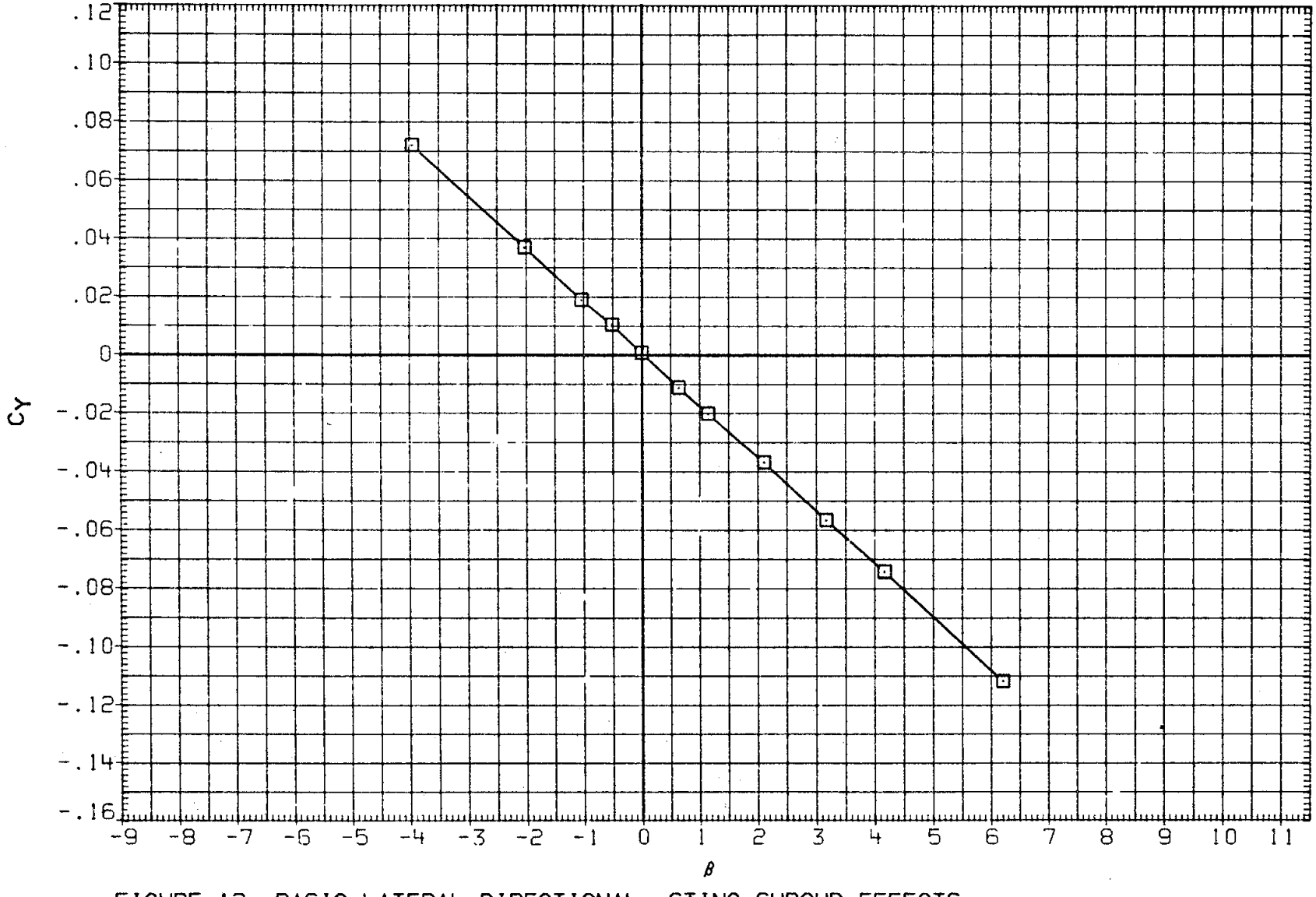

FIGURE 12. BASIC LATERAL-DIRECTIONAL, STING SHROUD EFFECTS

(I)MACH = 1.07

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	90.000
RK0026	□	LARC 16FT TWT 325(OA270B) 105-0 ORR. STING SHRD	.000	.000	.000	.000	25.500	-.030	90.000

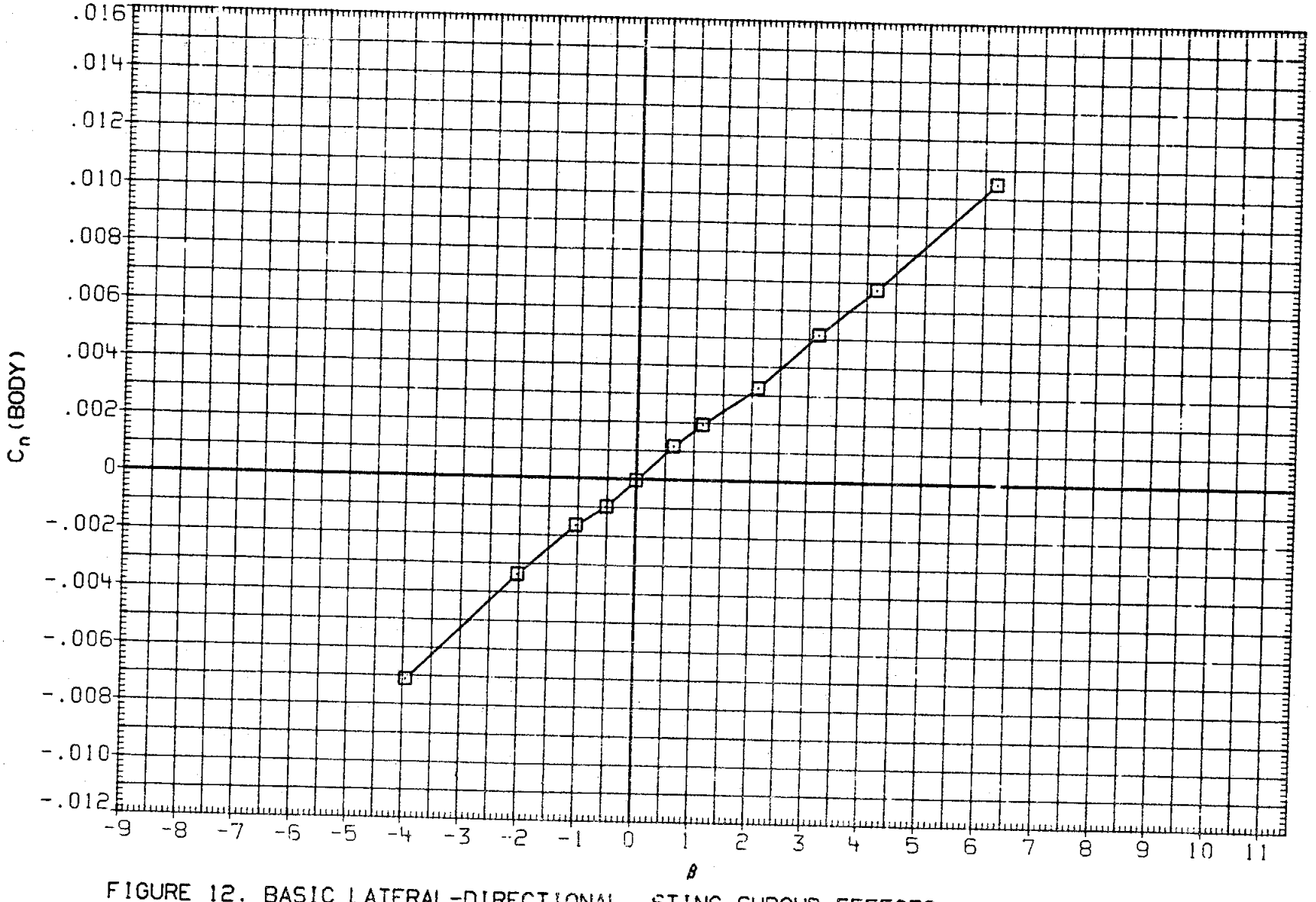

FIGURE 12. BASIC LATERAL-DIRECTIONAL, STING SHROUD EFFECTS

(I)MACH = 1.07

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	90.000
RK0026	□	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	90.000

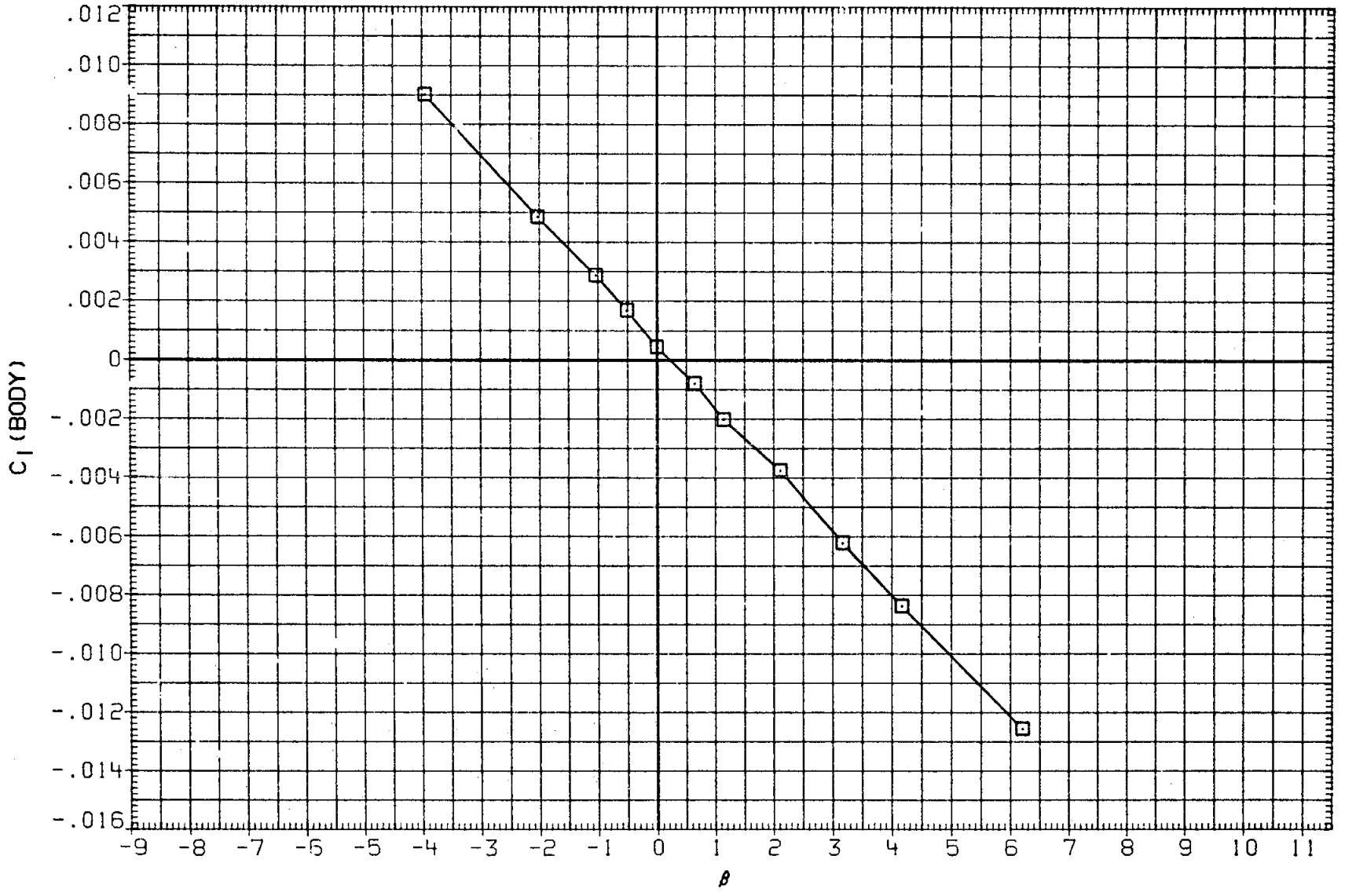

FIGURE 12. BASIC LATERAL-DIRECTIONAL, STING SHROUD EFFECTS

(I)MACH = 1.07

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
RK0026	□	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	90.000

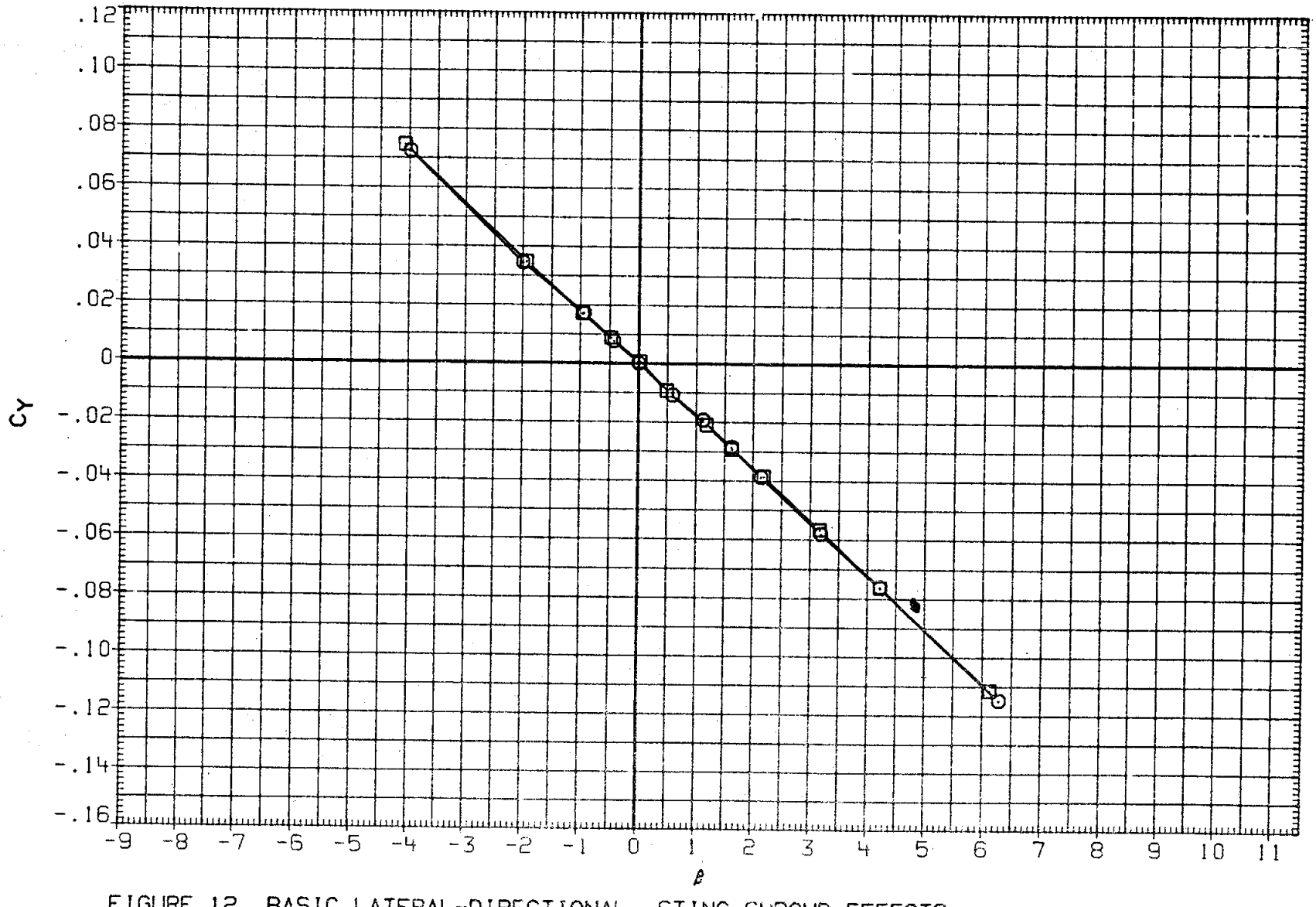

FIGURE 12. BASIC LATERAL-DIRECTIONAL, STING SHROUD EFFECTS

(J)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
RK0026	□	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	90.000

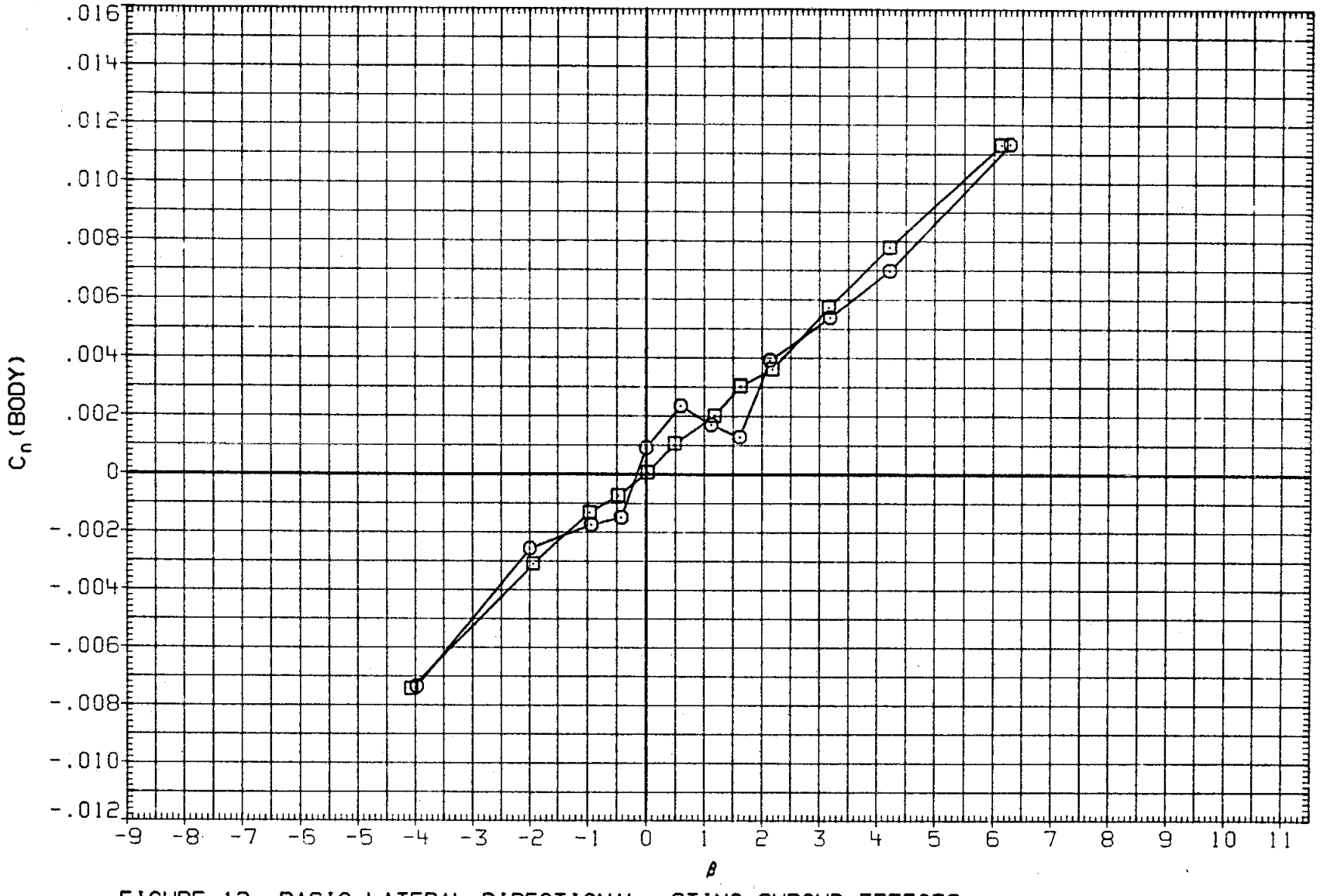

FIGURE 12. BASIC LATERAL-DIRECTIONAL, STING SHROUD EFFECTS

(J)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
RK0026	□	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	90.000

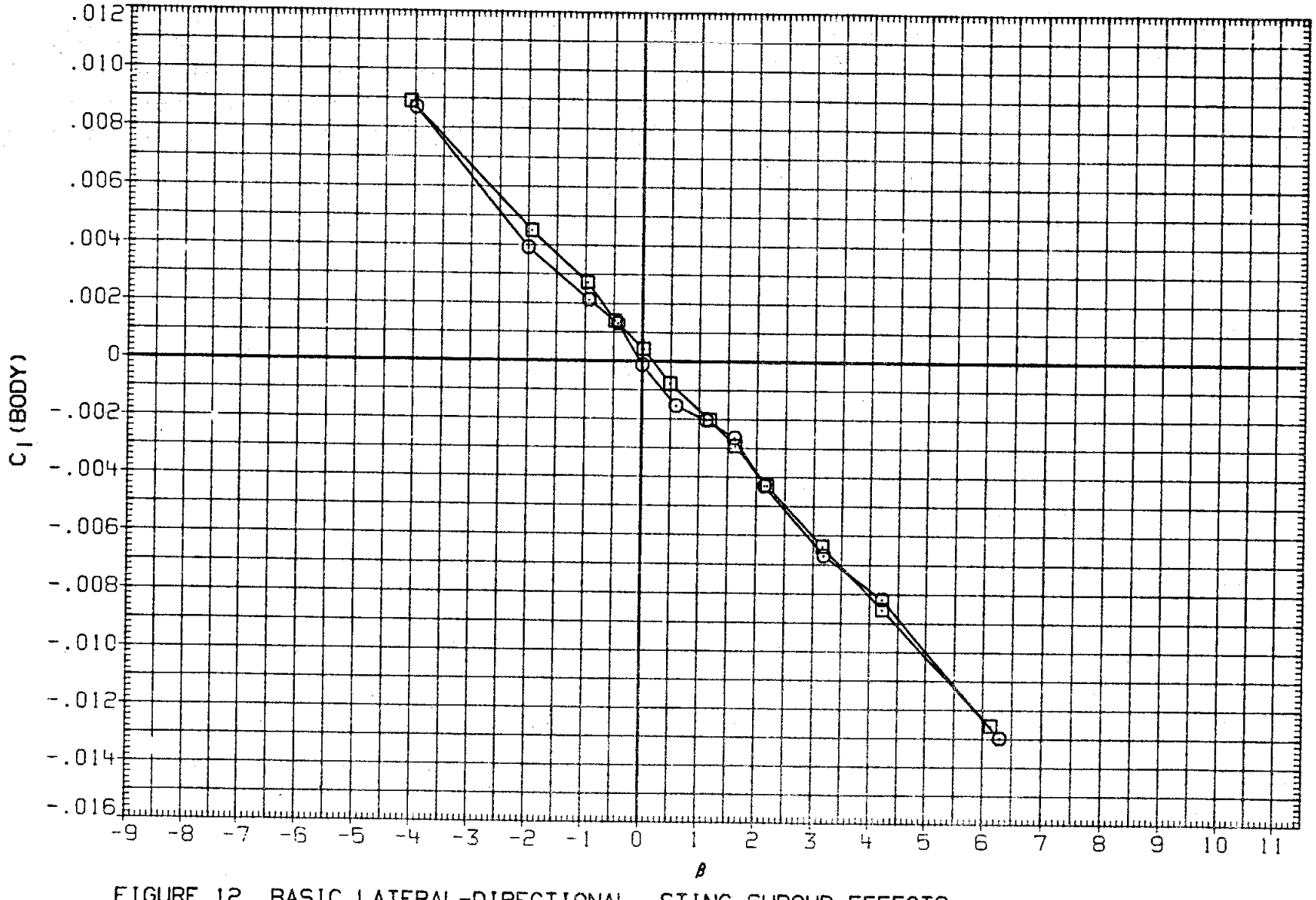

FIGURE 12. BASIC LATERAL-DIRECTIONAL, STING SHROUD EFFECTS

(J)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	90.000
RK0026	□	LARC 16FT TWT 325(OA270B) 105-0 ORR. STING SHRD	.000	.000	.000	.000	25.500	-.030	90.000

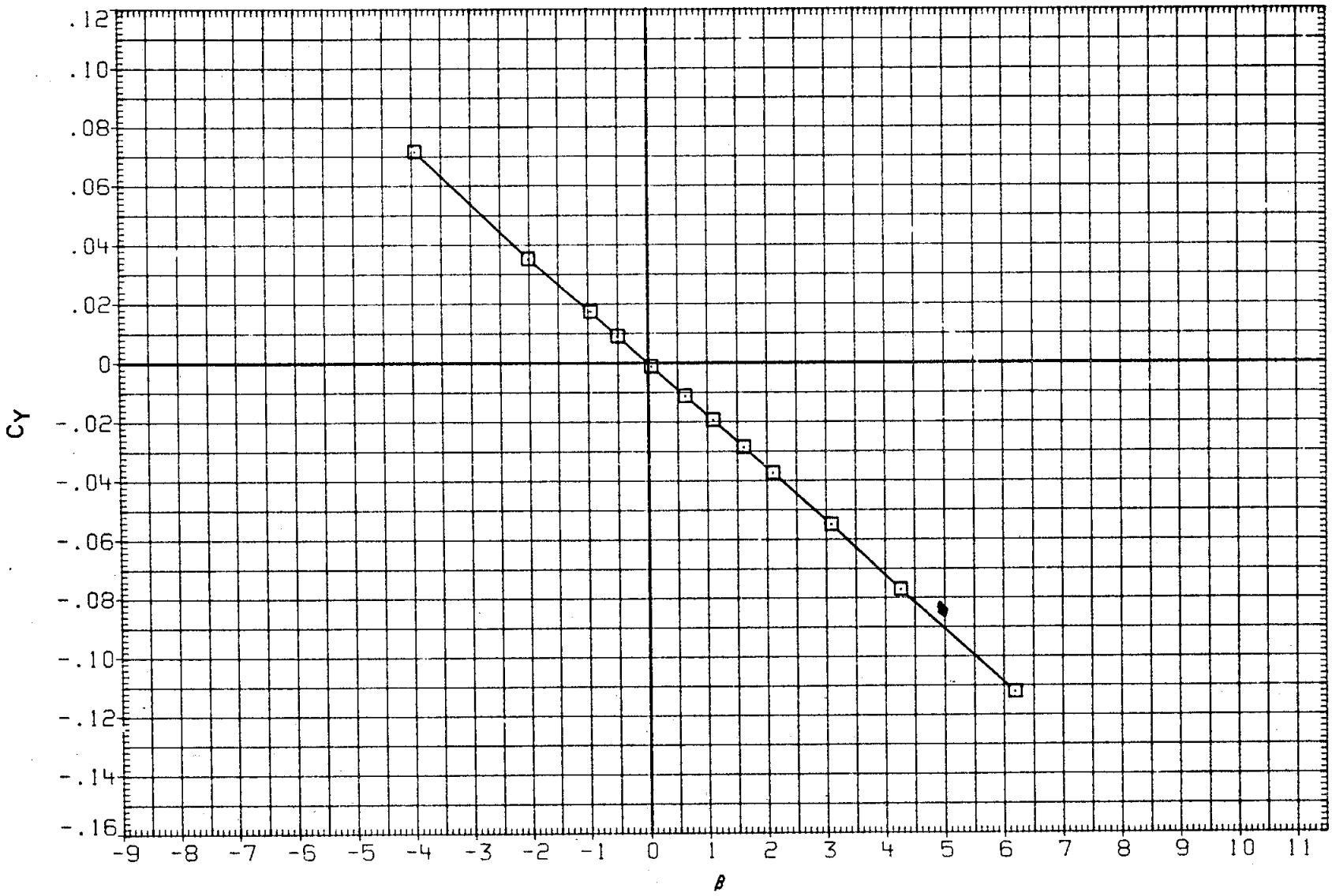

FIGURE 12. BASIC LATERAL-DIRECTIONAL, STING SHROUD EFFECTS

(K)MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	90.000
RK0026	□	LARC 16FT TWT 325(0A270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	90.000

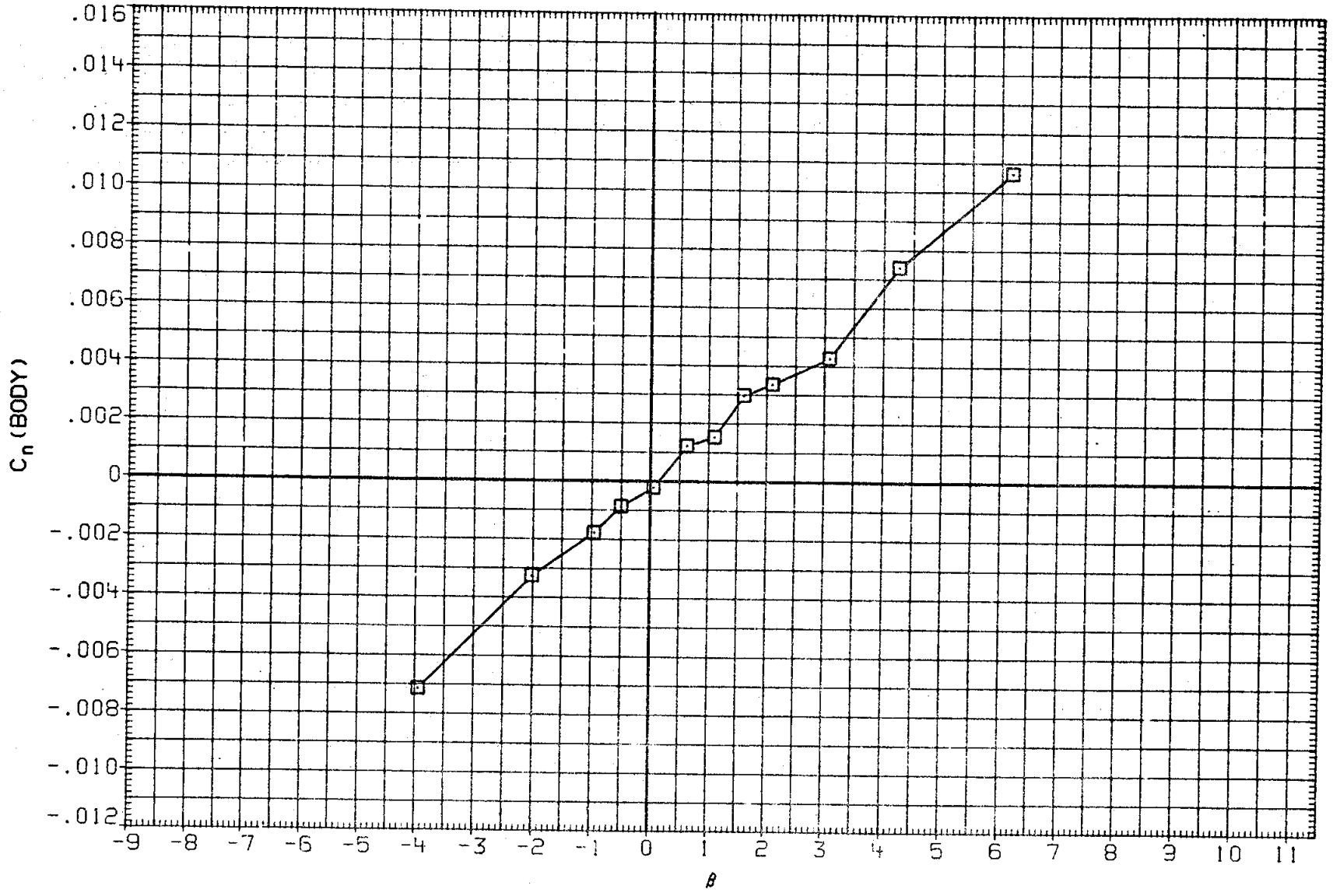

FIGURE 12. BASIC LATERAL-DIRECTIONAL. STING SHROUD EFFECTS

(K)MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	90.000
RK0026	□	LARC 16FT TWT 325(0A270B) 105-0 ORR. STING SHRD	.000	.000	.000	.000	25.500	-.030	90.000

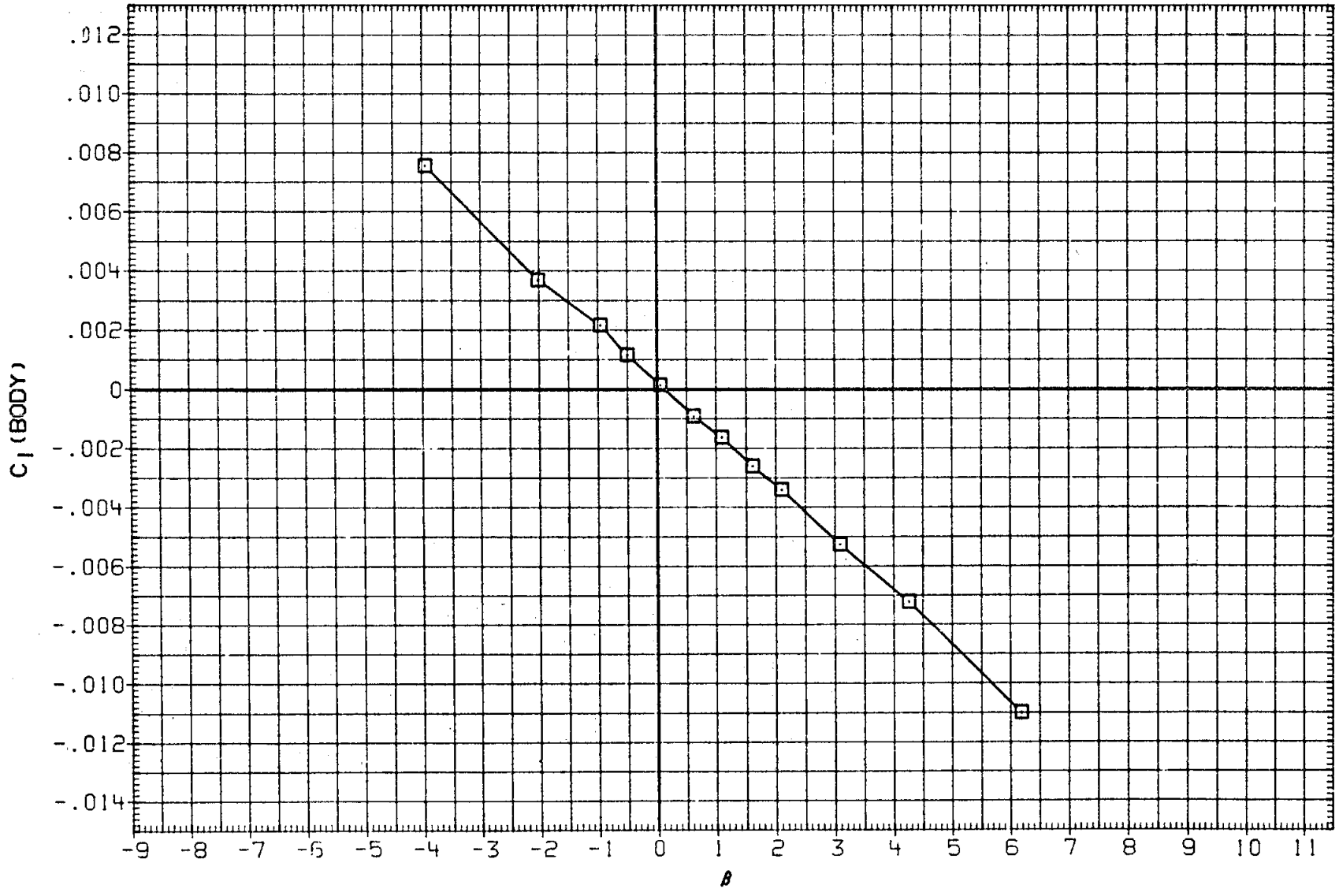

FIGURE 12. BASIC LATERAL-DIRECTIONAL, STING SHROUD EFFECTS

(K)MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
RK0026	□	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	90.000

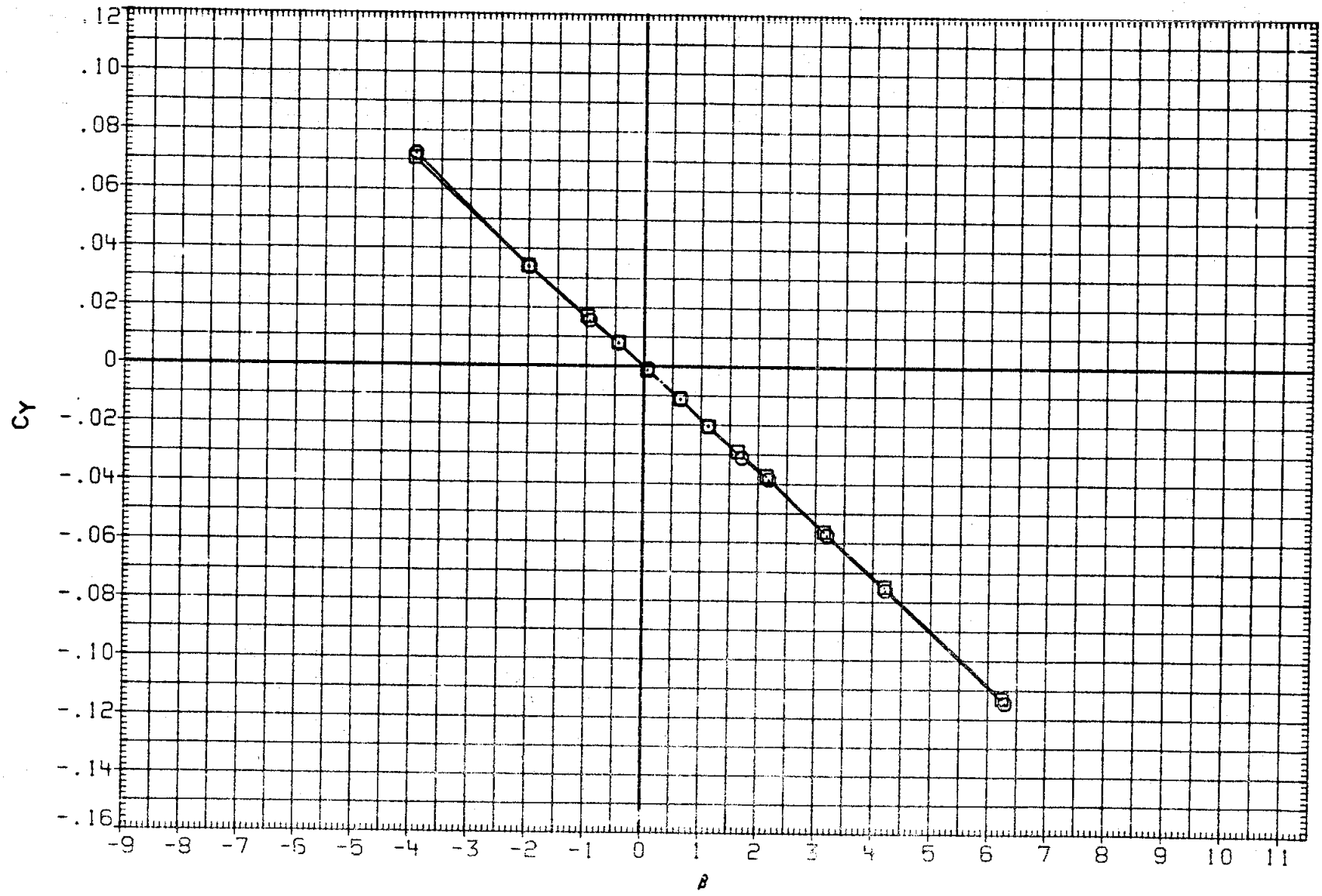

FIGURE 12. BASIC LATERAL-DIRECTIONAL, STING SHROUD EFFECTS

(L)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
RK0026	□	LARC 16FT TWT 325(0A270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	90.000

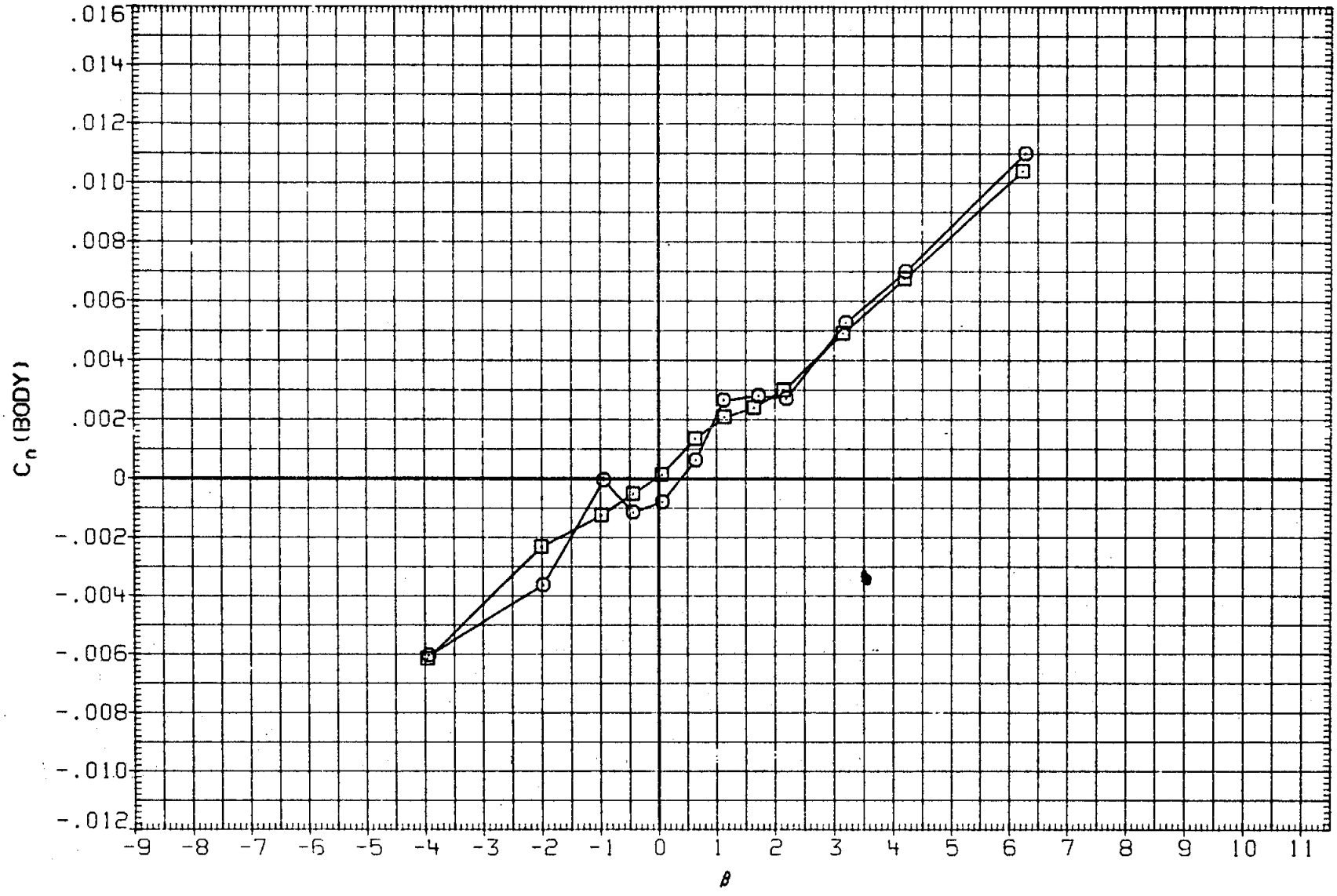

FIGURE 12. BASIC LATERAL-DIRECTIONAL, STING SHROUD EFFECTS

(L)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
RK0026	□	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	90.000

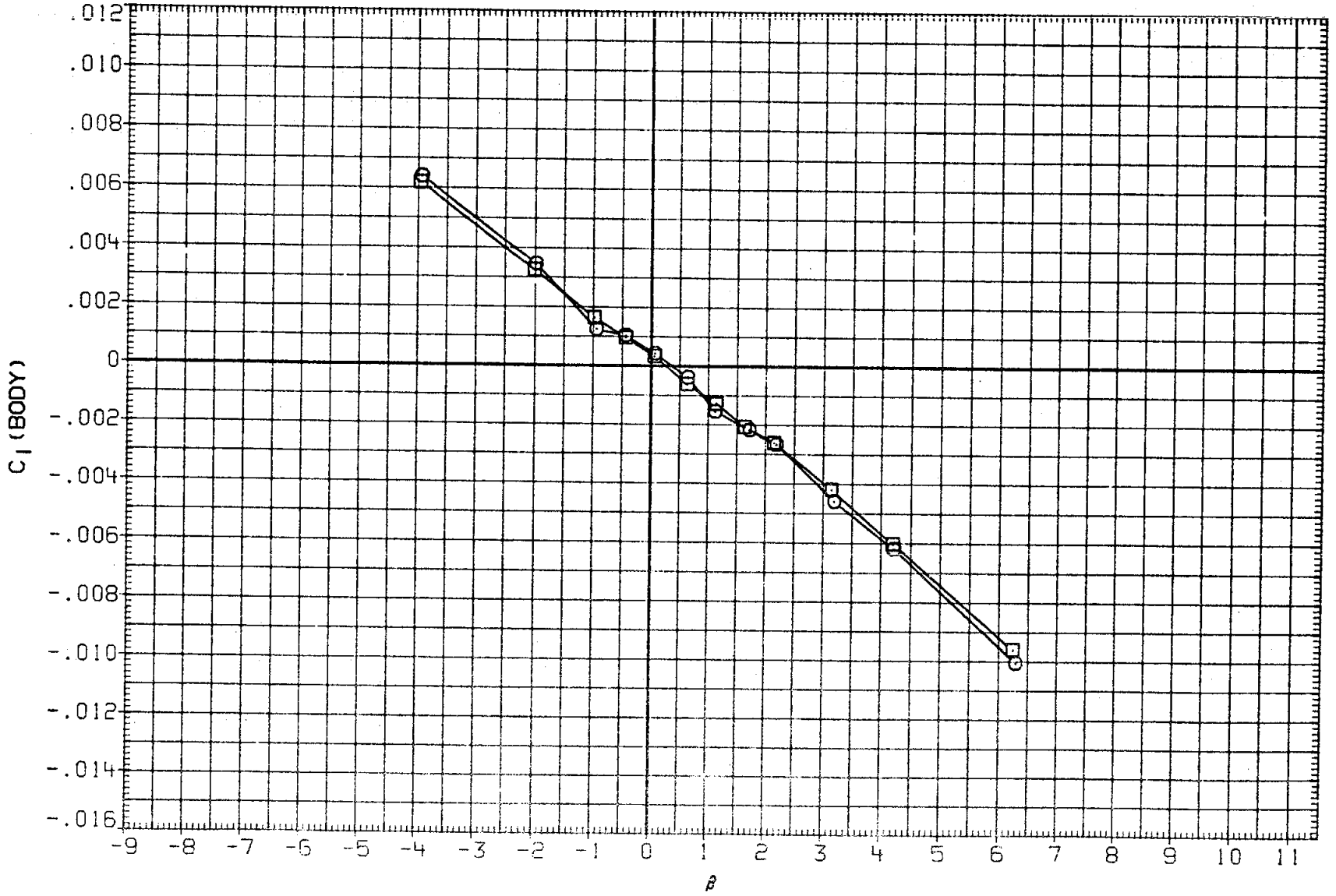

FIGURE 12. BASIC LATERAL-DIRECTIONAL, STING SHROUD EFFECTS

(L)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	90.000
RK0026	□	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	90.000

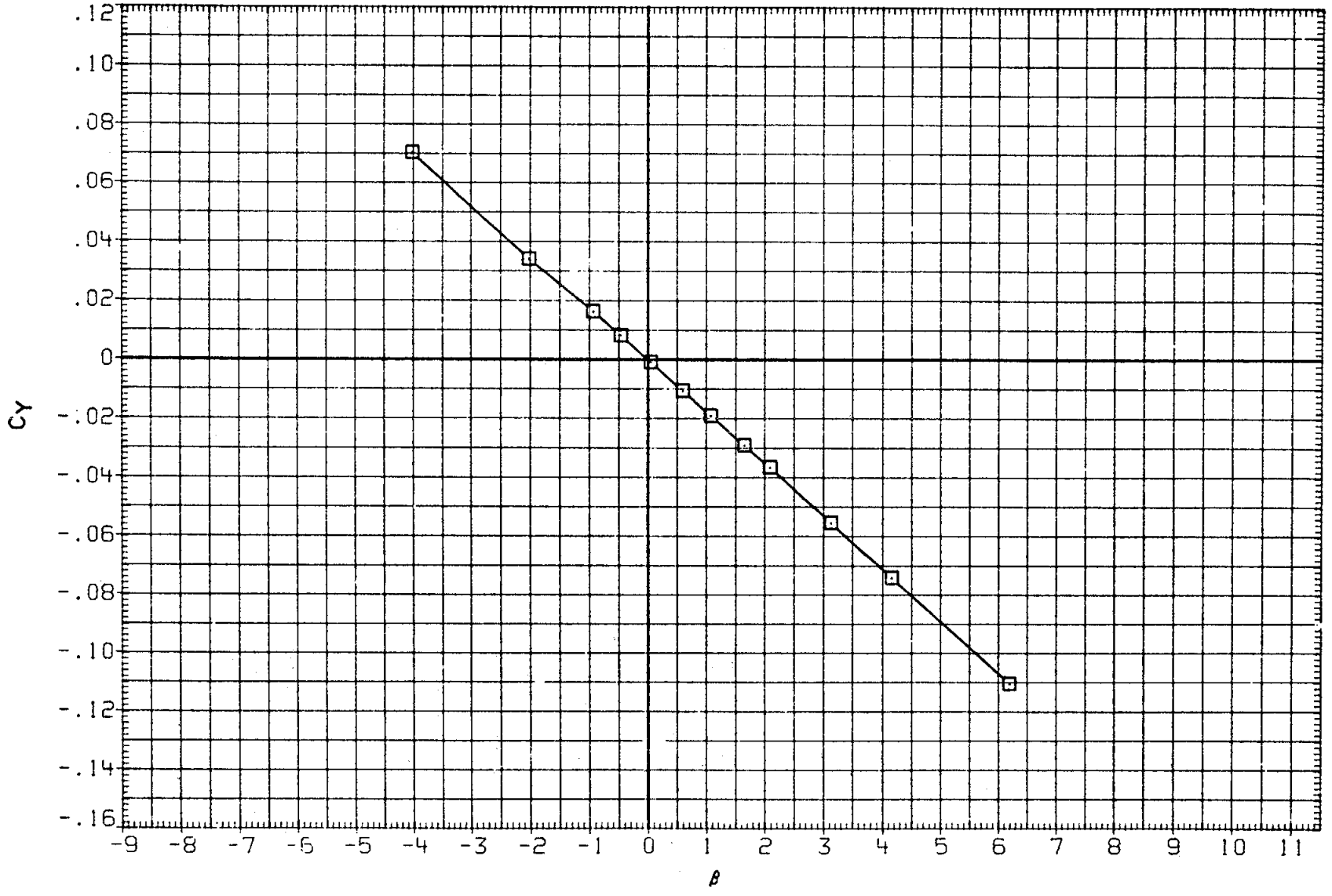

FIGURE 12. BASIC LATERAL-DIRECTIONAL, STING SHROUD EFFECTS

(M)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	90.000
RK0026	□	LARC 16FT TWT 325(OA270B) 105-0 ORR. STING SHRD	.000	.000	.000	.000	25.500	-.030	90.000

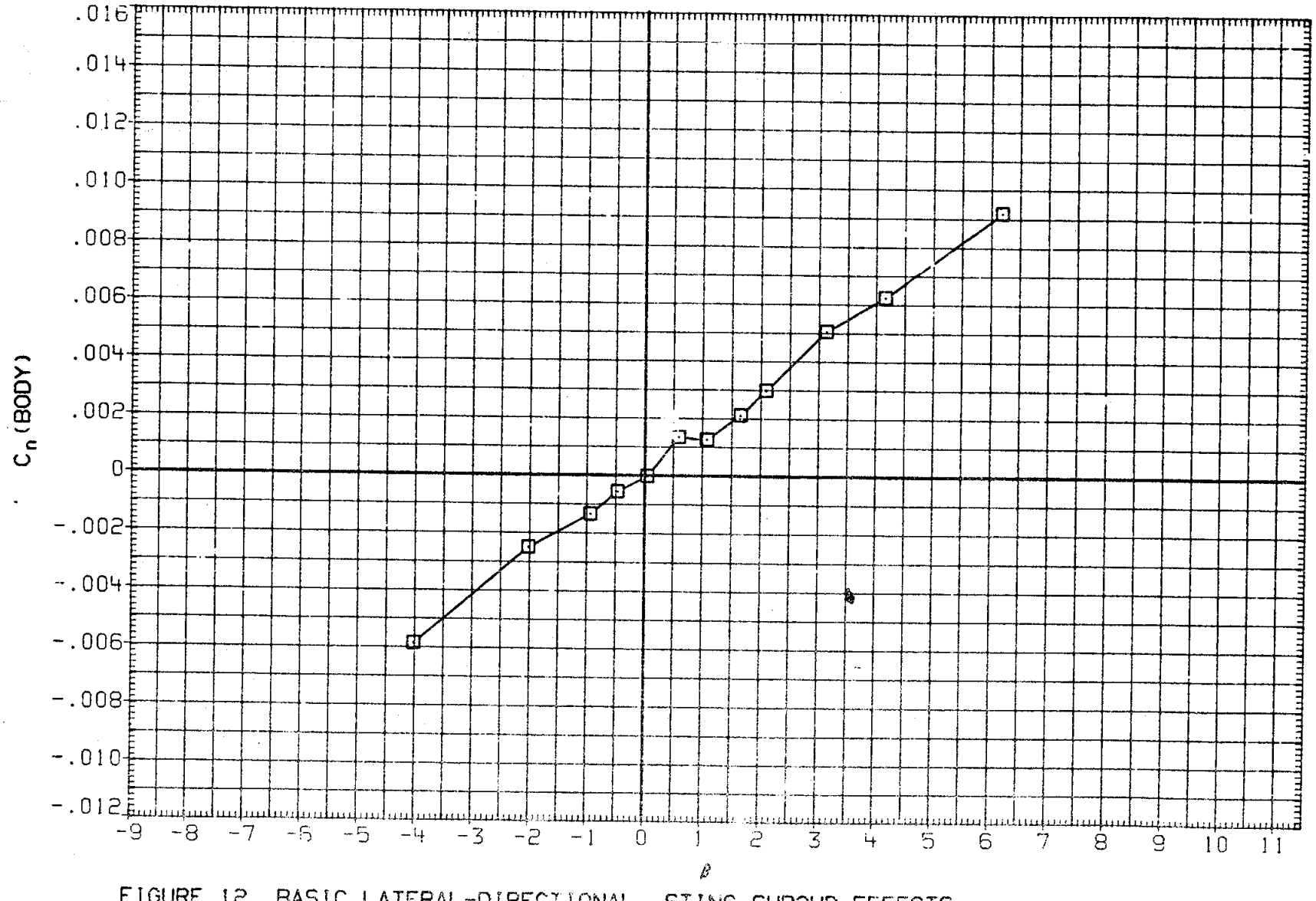

FIGURE 12. BASIC LATERAL-DIRECTIONAL, STING SHROUD EFFECTS

(M)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	90.000
RK0026	□	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	90.000

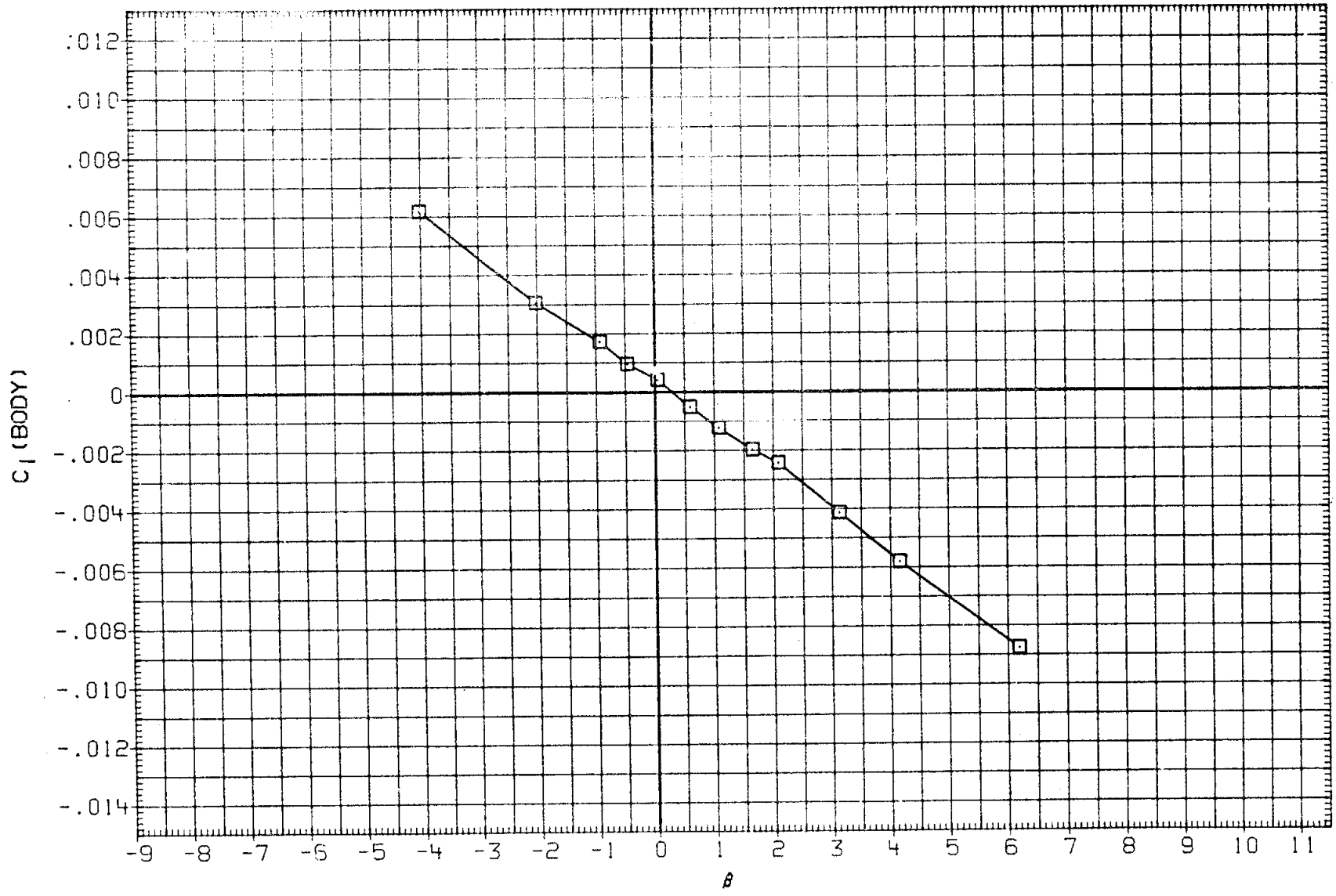

FIGURE 12. BASIC LATERAL-DIRECTIONAL, STING SHROUD EFFECTS

(M)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
RK0026	□	LARC 16FT TWT 325(0A270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	90.000

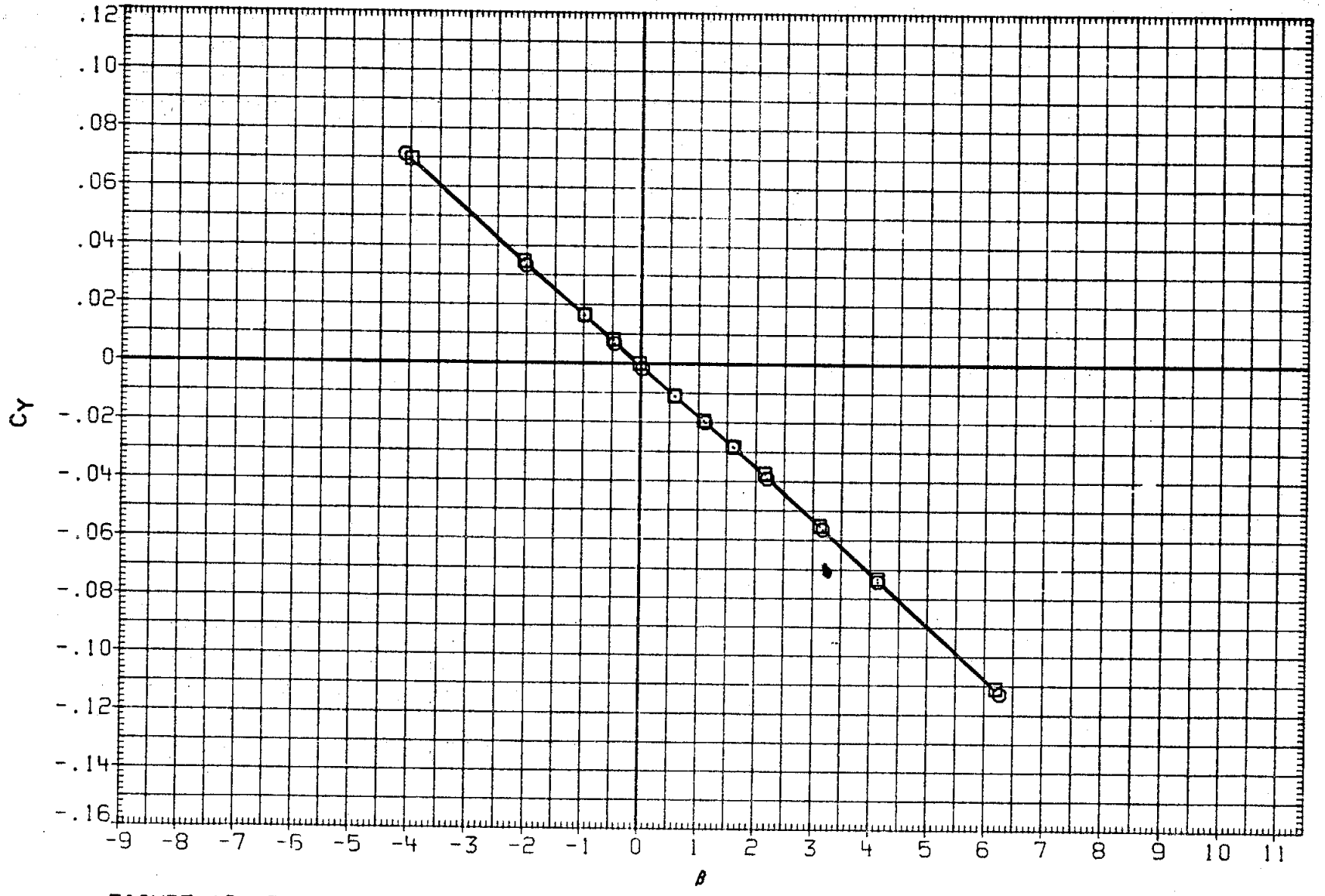

FIGURE 12. BASIC LATERAL-DIRECTIONAL, STING SHROUD EFFECTS

(N)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
RK0026	□	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	90.000

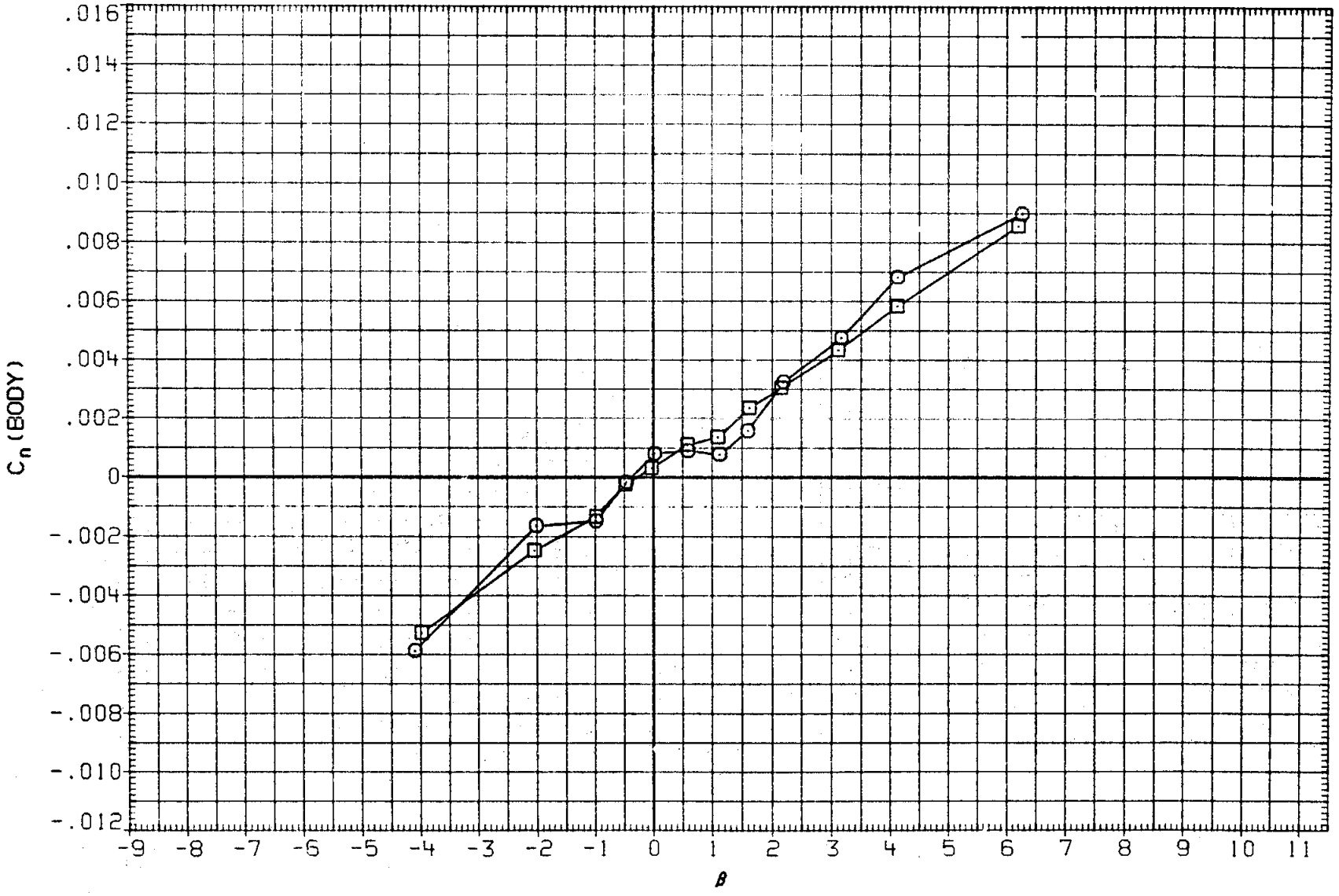

FIGURE 12. BASIC LATERAL-DIRECTIONAL, STING SHROUD EFFECTS

(N)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0025	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	90.000
RK0026	□	LARC 16FT TWT 325(OA270B) 105-0 ORB. STING SHRD	.000	.000	.000	.000	25.500	-.030	90.000

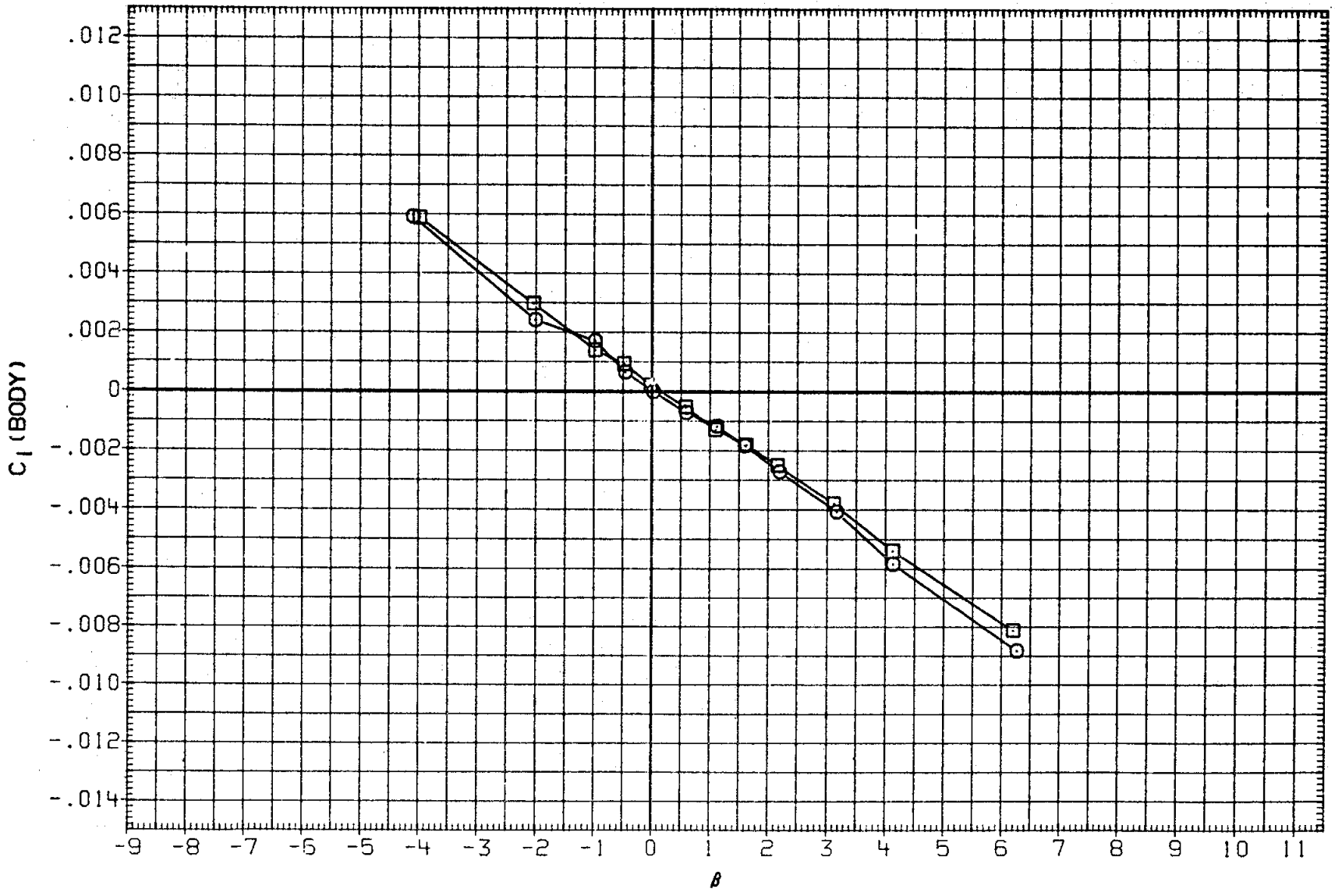

FIGURE 12. BASIC LATERAL-DIRECTIONAL, STING SHROUD EFFECTS

(N)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN001	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	AMES 118-1-11 OA145A 01(INVERTED)	.000	.000	.000	.000	25.000	.000	

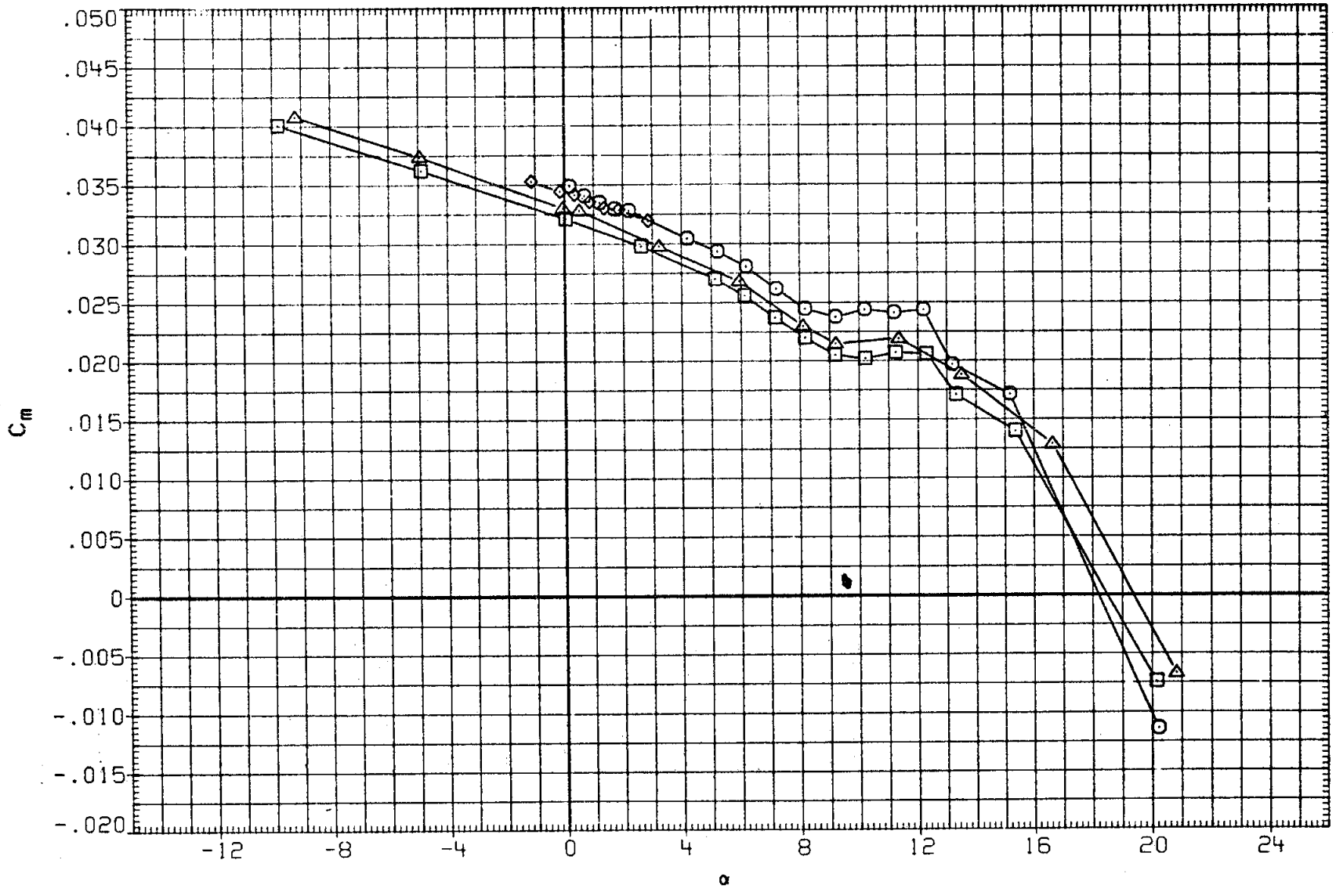

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN001	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	AMES 118-1-11 OA145A 01(INVERTED)	.000	.000	.000	.000	25.000	.000	

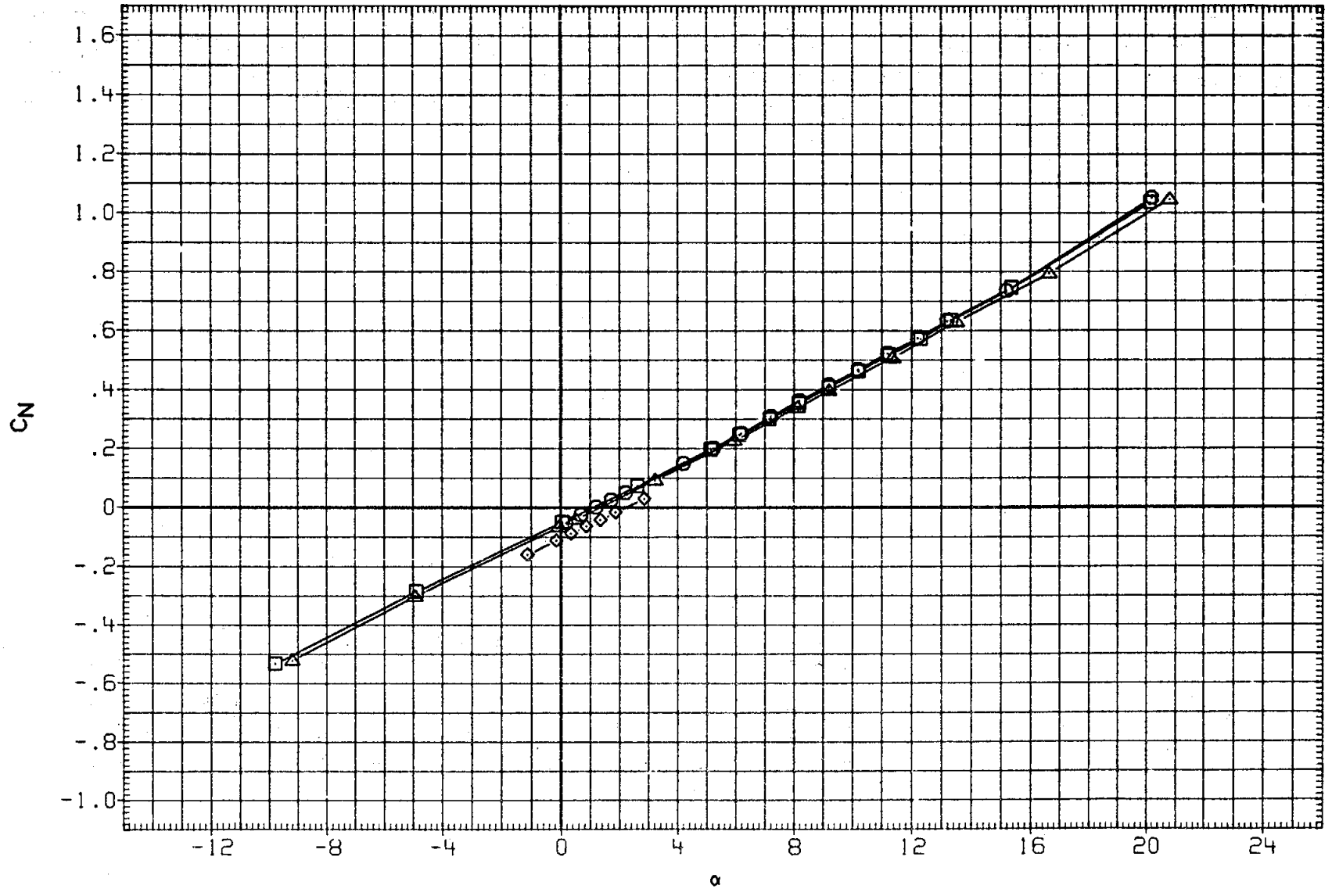

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN001	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	AMES 118-1-11 OA145A 01(INVERTED)	.000	.000	.000	.000	25.000	.000	

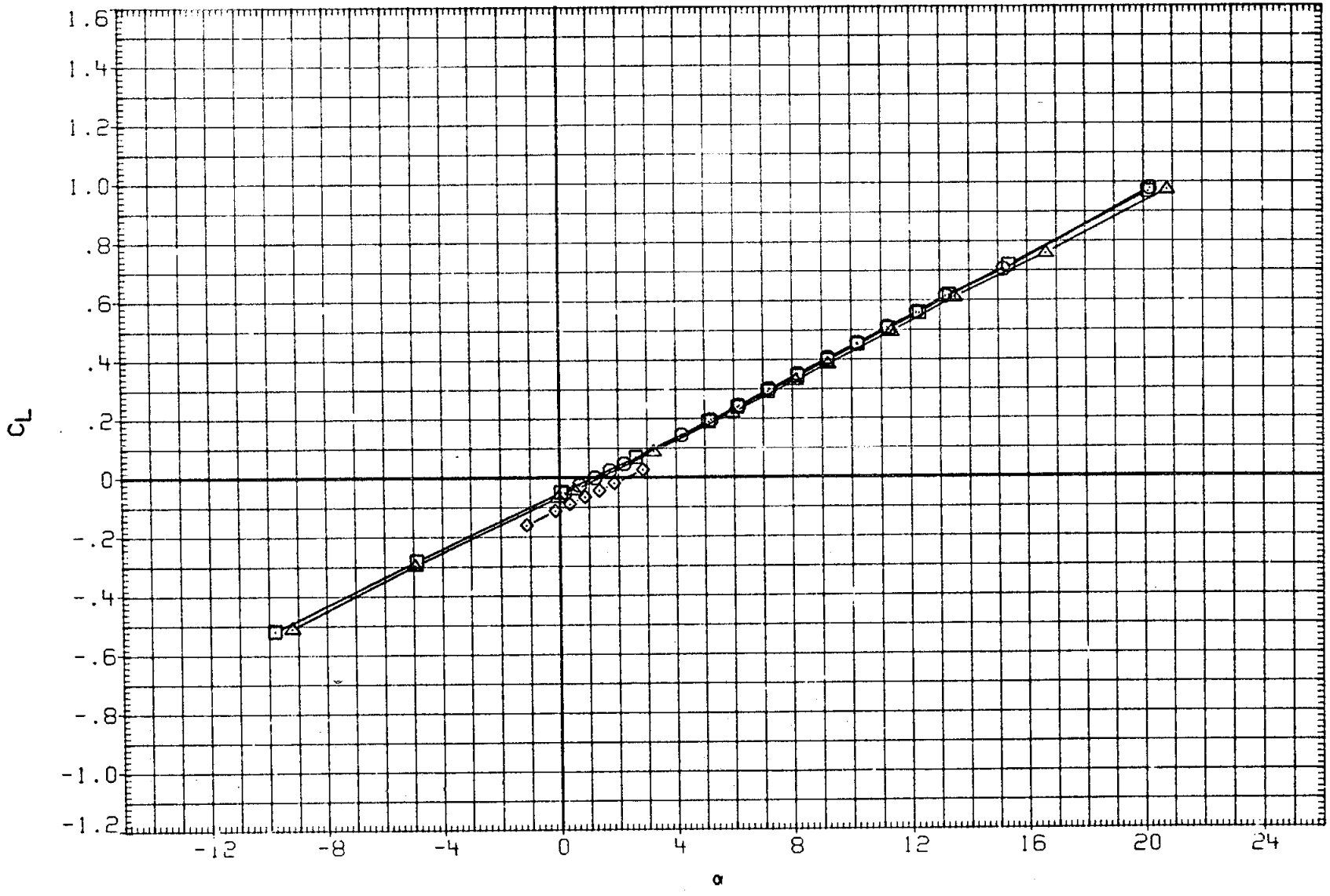

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN001	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	AMES 118-1-11 OA145A 01(INVERTED)	.000	.000	.000	.000	25.000	.000	

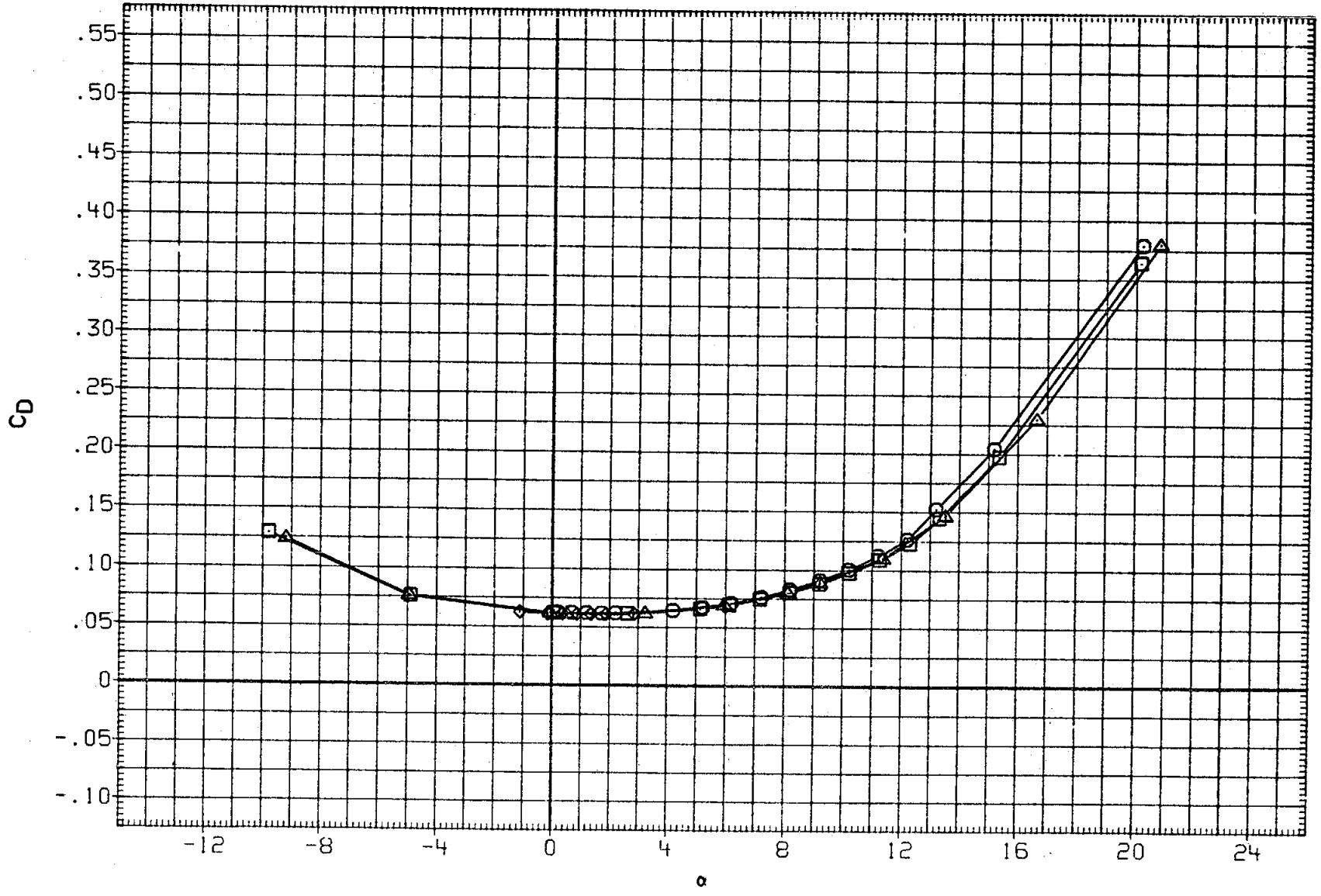

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN001	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	AMES 118-1-11 OA145A 01(INVERTED)	.000	.000	.000	.000	25.000	.000	

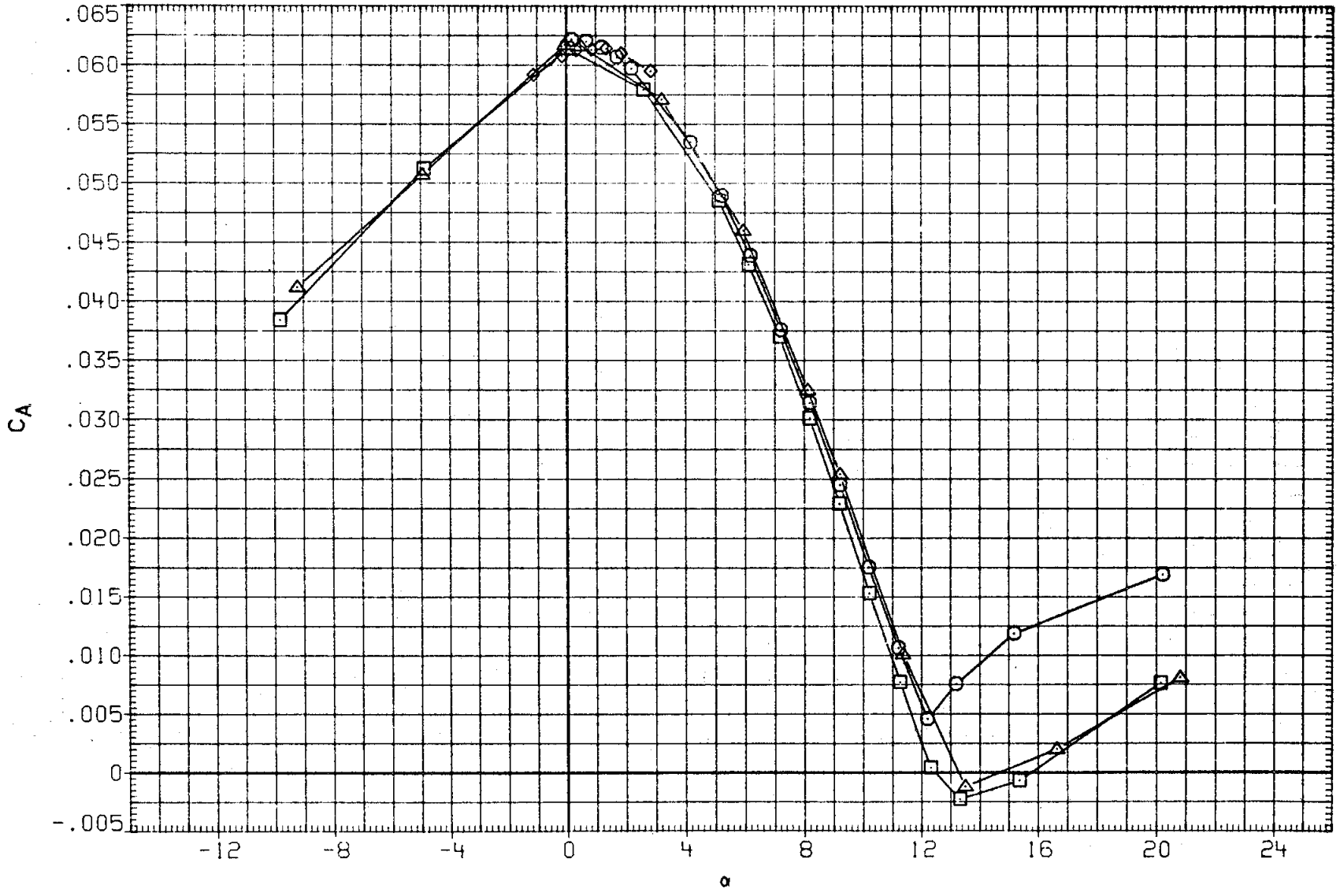

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN001	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	AMES 118-1-11 OA145A 01(INVERTED)	.000	.000	.000	.000	25.000	.000	

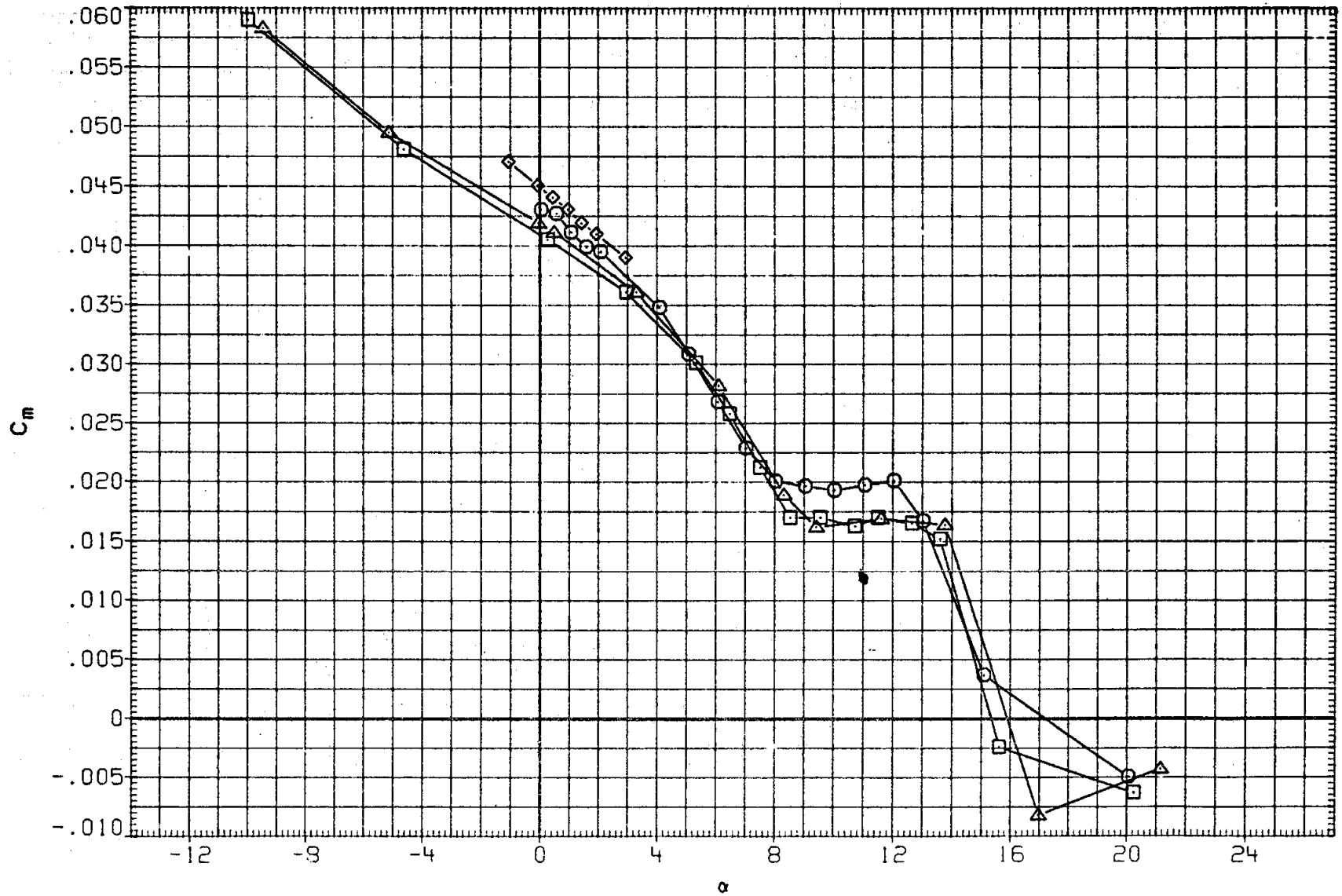

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN001	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	AMES 118-1-11 OA145A 01(INVERTED)	.000	.000	.000	.000	25.000	.000	

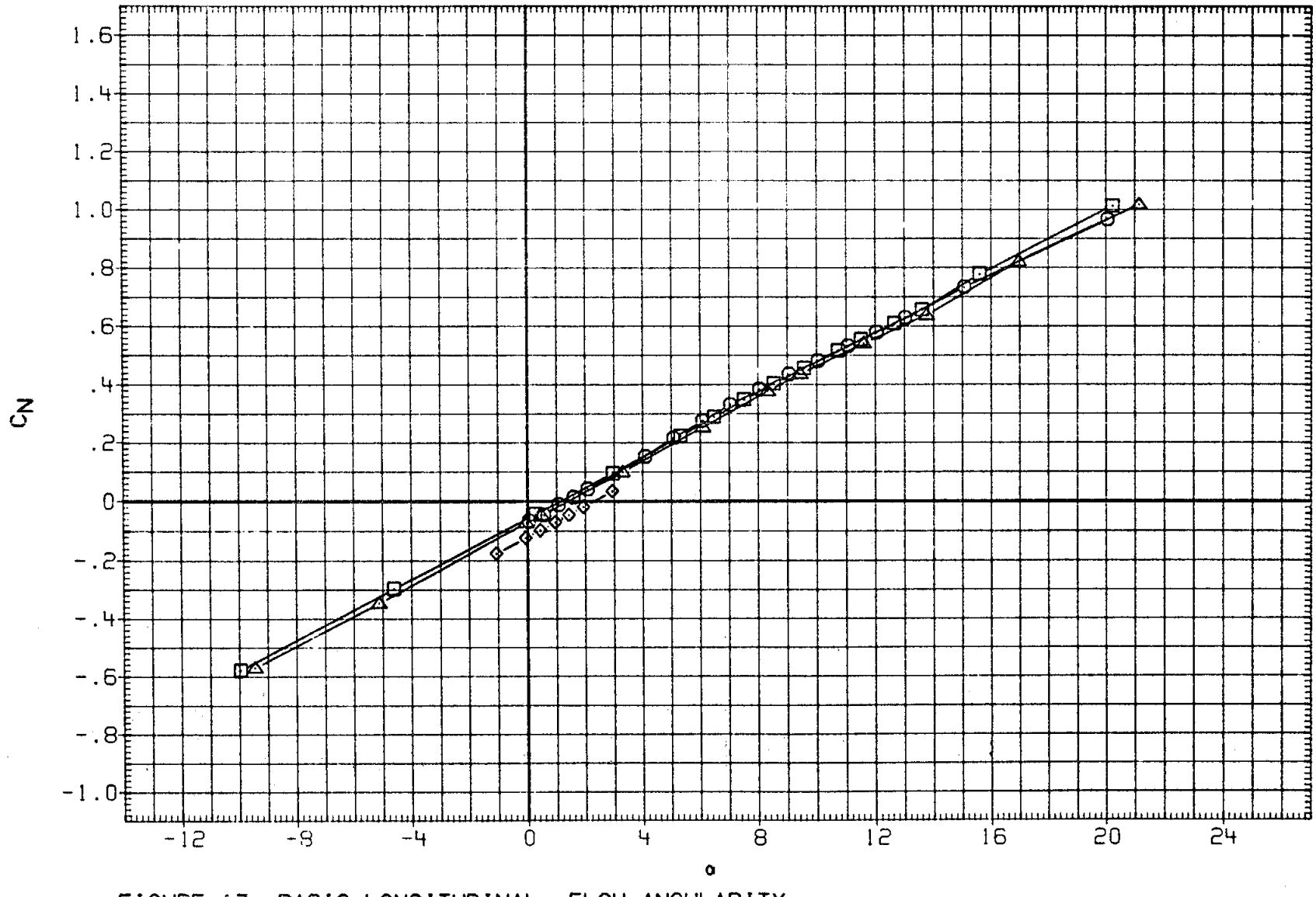

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN001	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	AMES 118-1-11 OA145A 01(INVERTED)	.000	.000	.000	.000	25.000	.000	

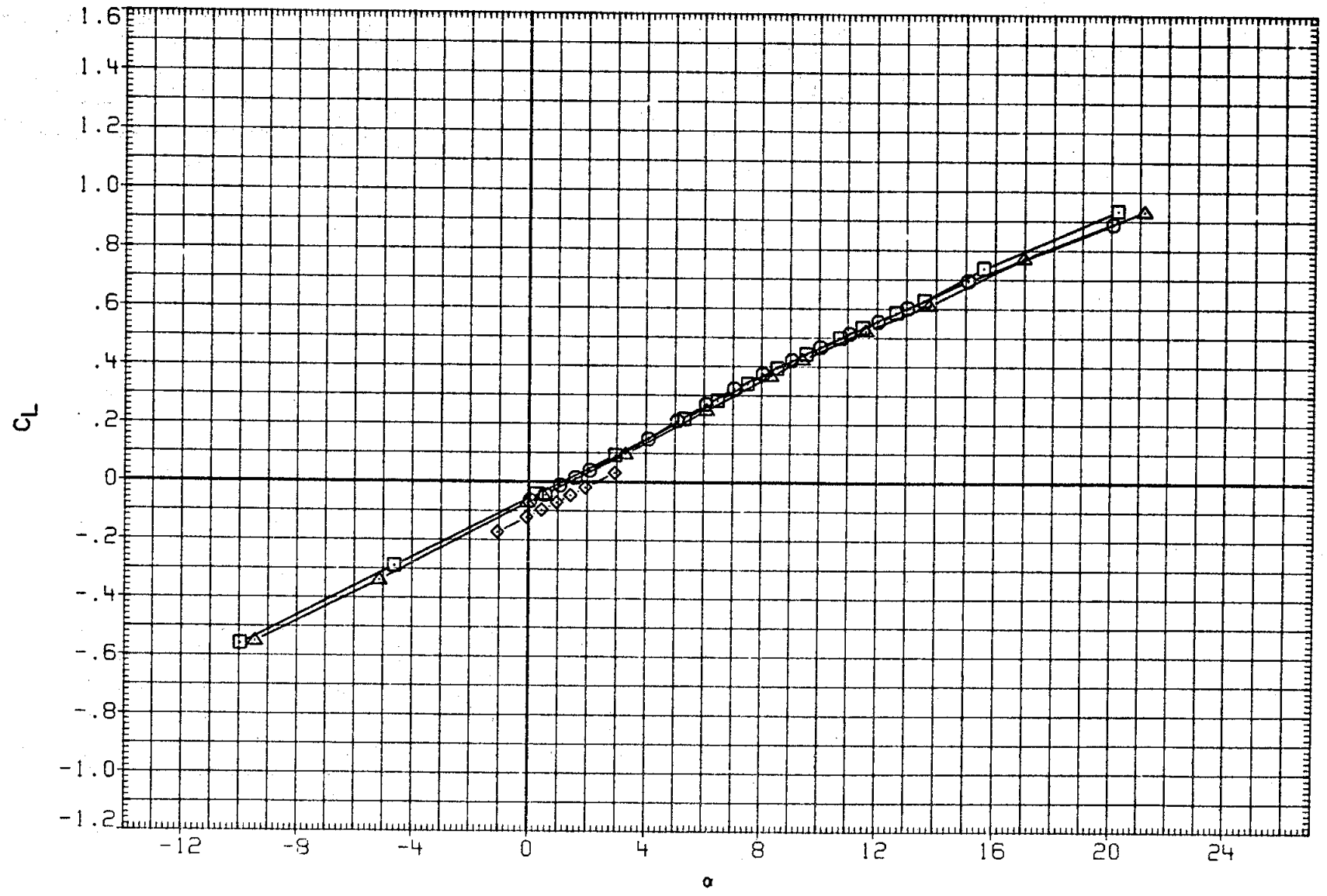

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN001	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	AMES 118-1-11 OA145A 01(INVERTED)	.000	.000	.000	.000	25.000	.000	

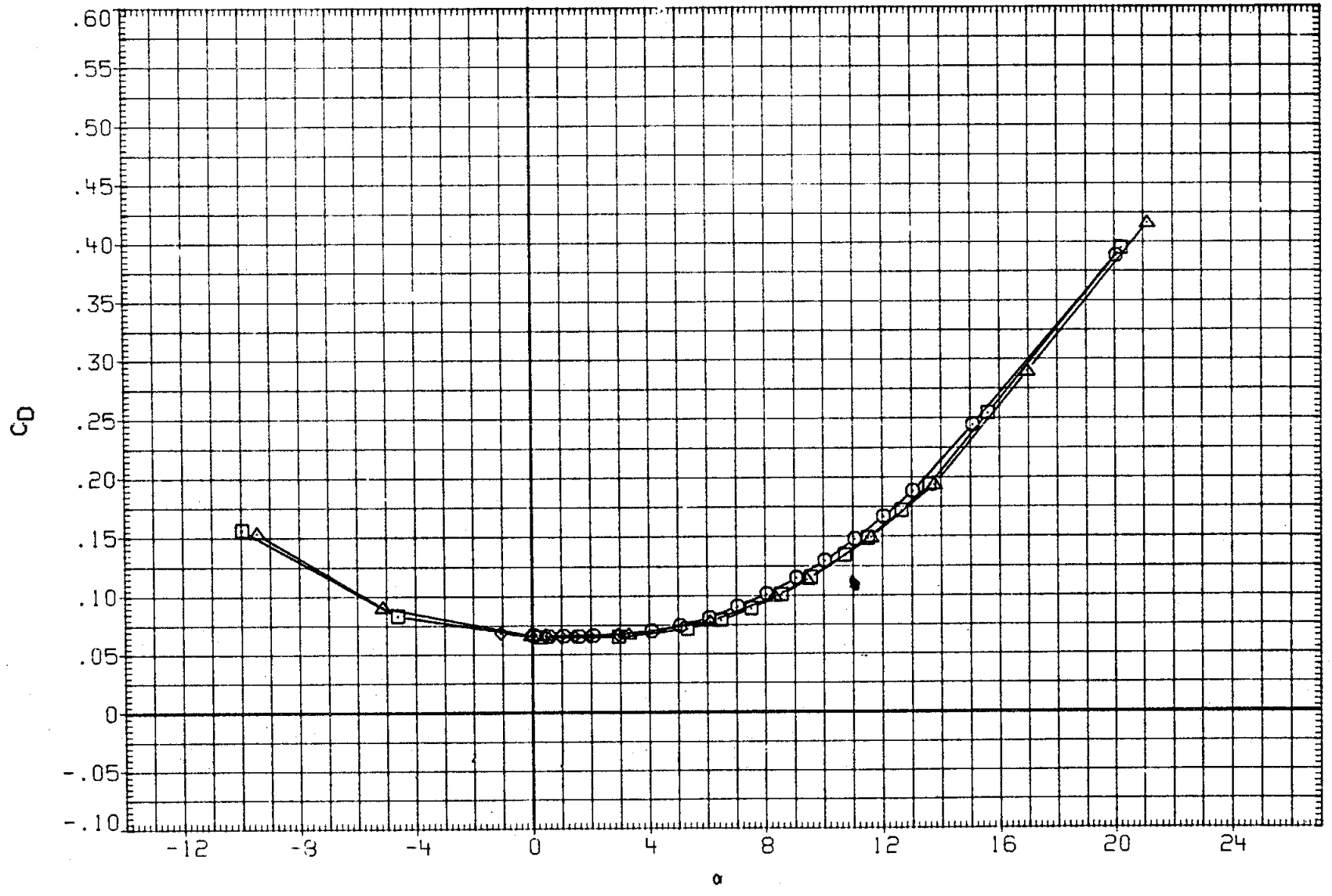

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN001	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	AMES 118-1-11 OA145A 01(INVERTED)	.000	.000	.000	.000	25.000	.000	

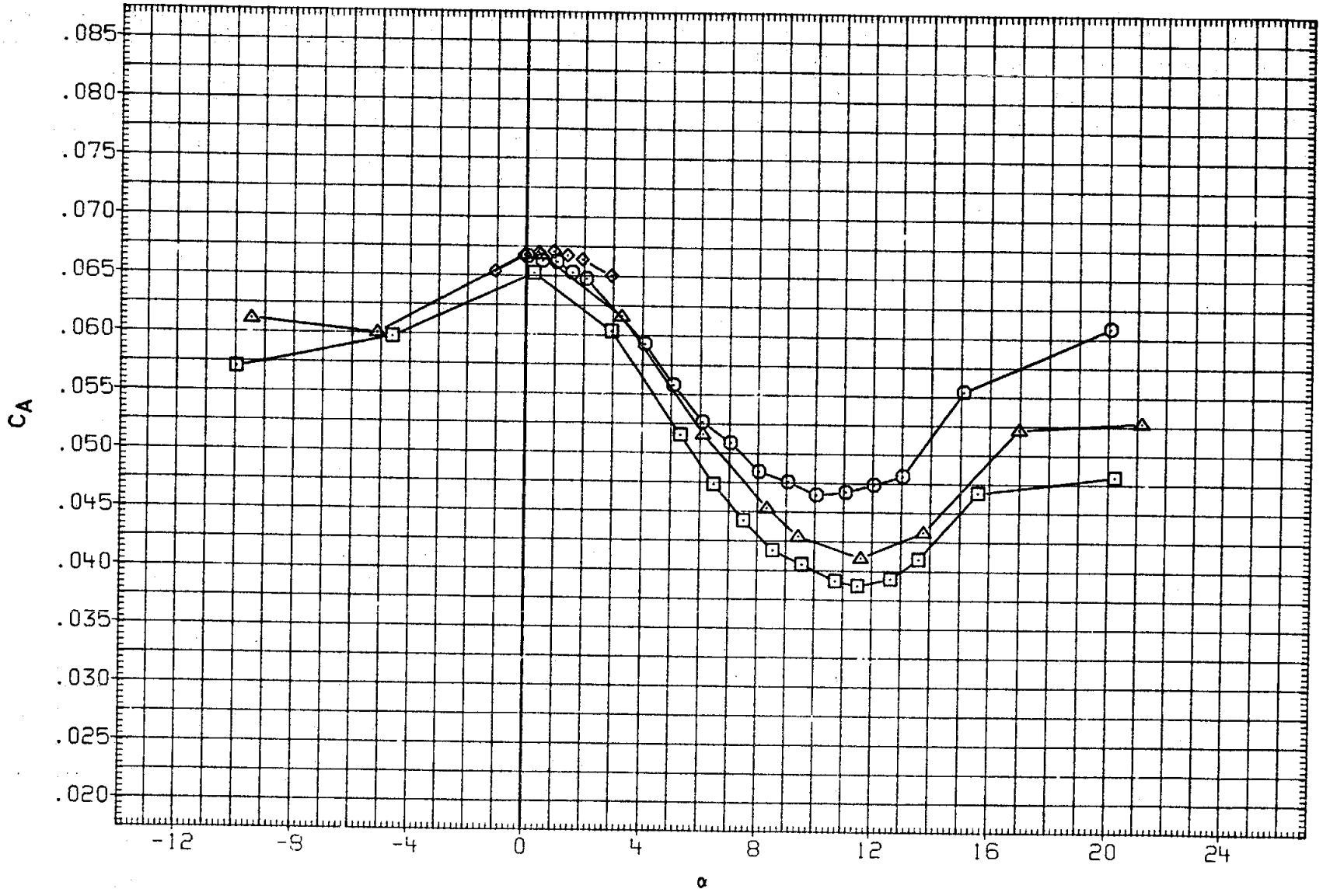

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN001	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	AMES 118-1-11 OA145A 01(INVERTED)	.000	.000	.000	.000	25.000	.000	

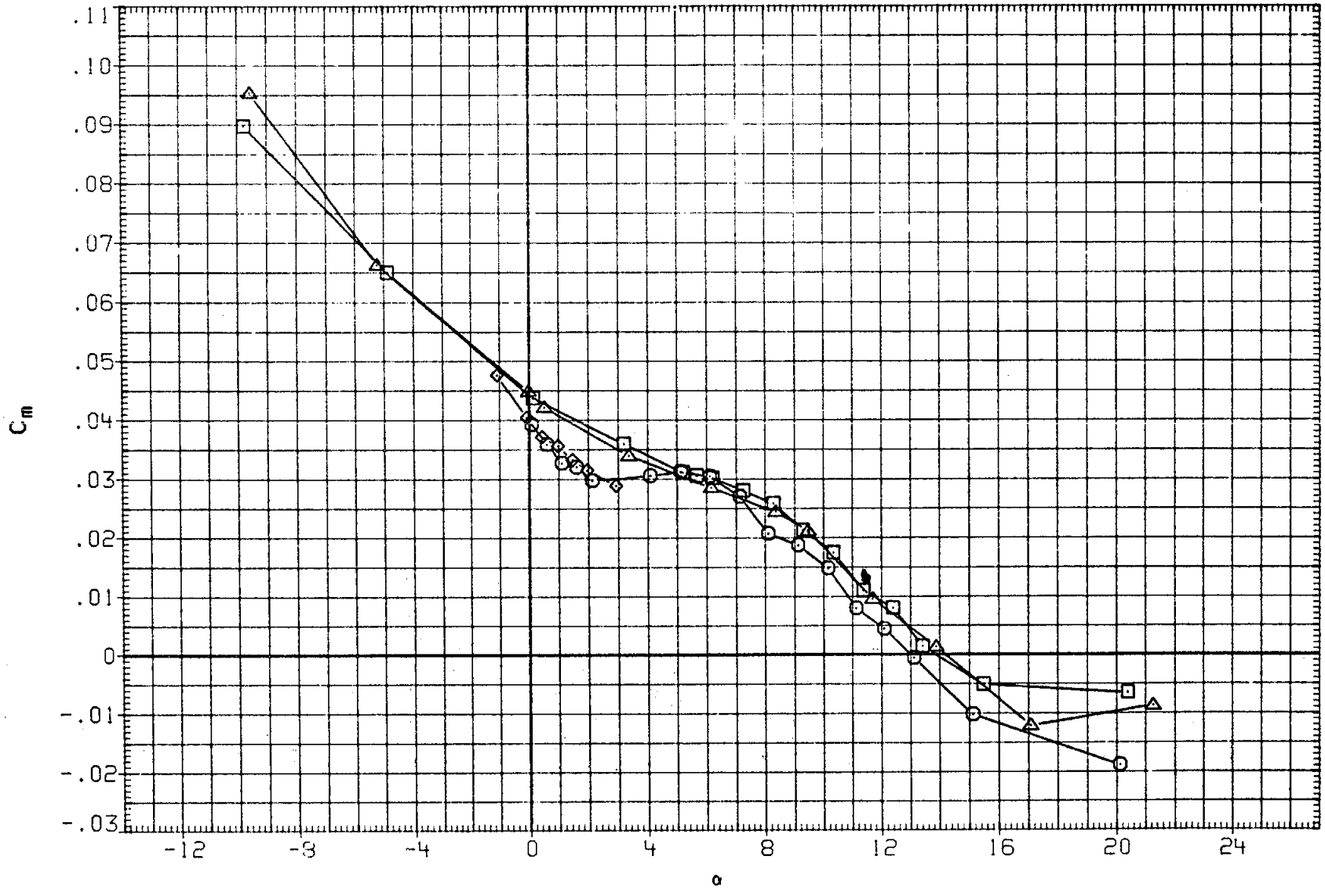

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION
RKN017	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.
R2F012	□	AMES 118-1-11 OA145A 01
RKN001	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.
R2F001	△	AMES 118-1-11 OA145A 01(INVERTED)

BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
.000	.000	.000	.000	25.000	.000	.000
.000	.000	.000	.000	25.000	.000	
.000	.000	.000	.000	25.000	.000	180.000
.000	.000	.000	.000	25.000	.000	

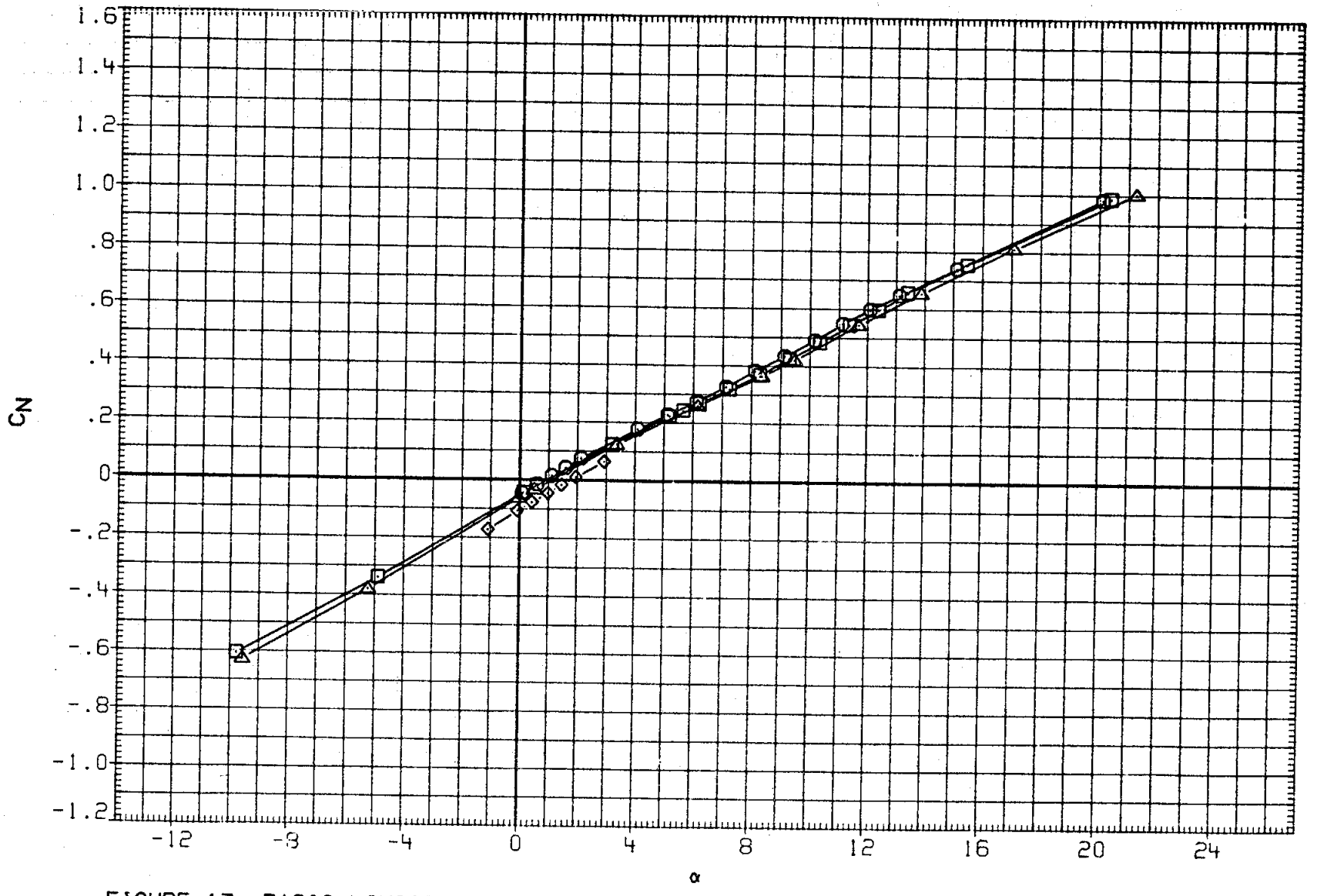

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN001	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	AMES 118-1-11 OA145A 01(INVERTED)	.000	.000	.000	.000	25.000	.000	

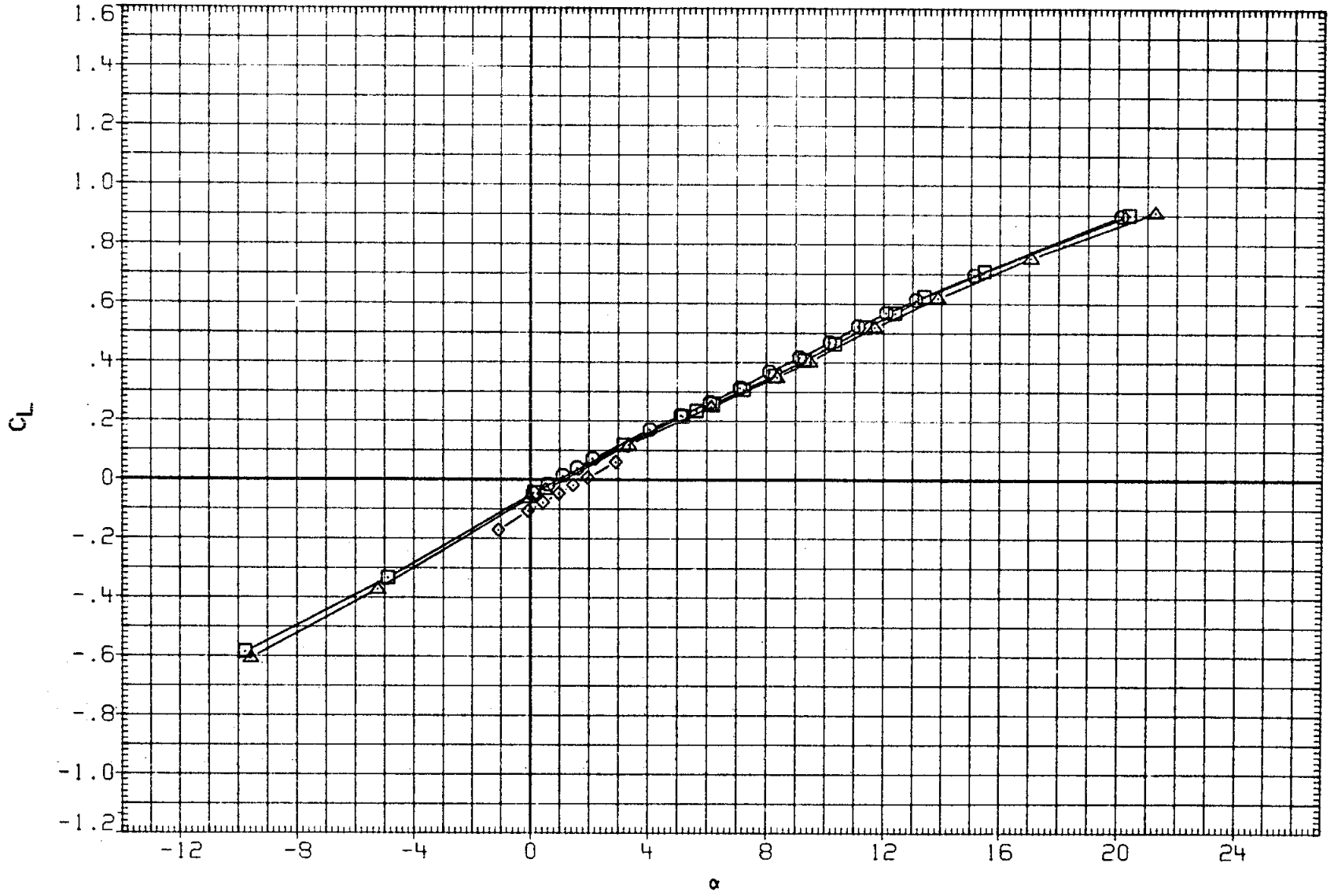

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN001	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	AMES 118-1-11 OA145A 01(INVERTED)	.000	.000	.000	.000	25 000	.000	

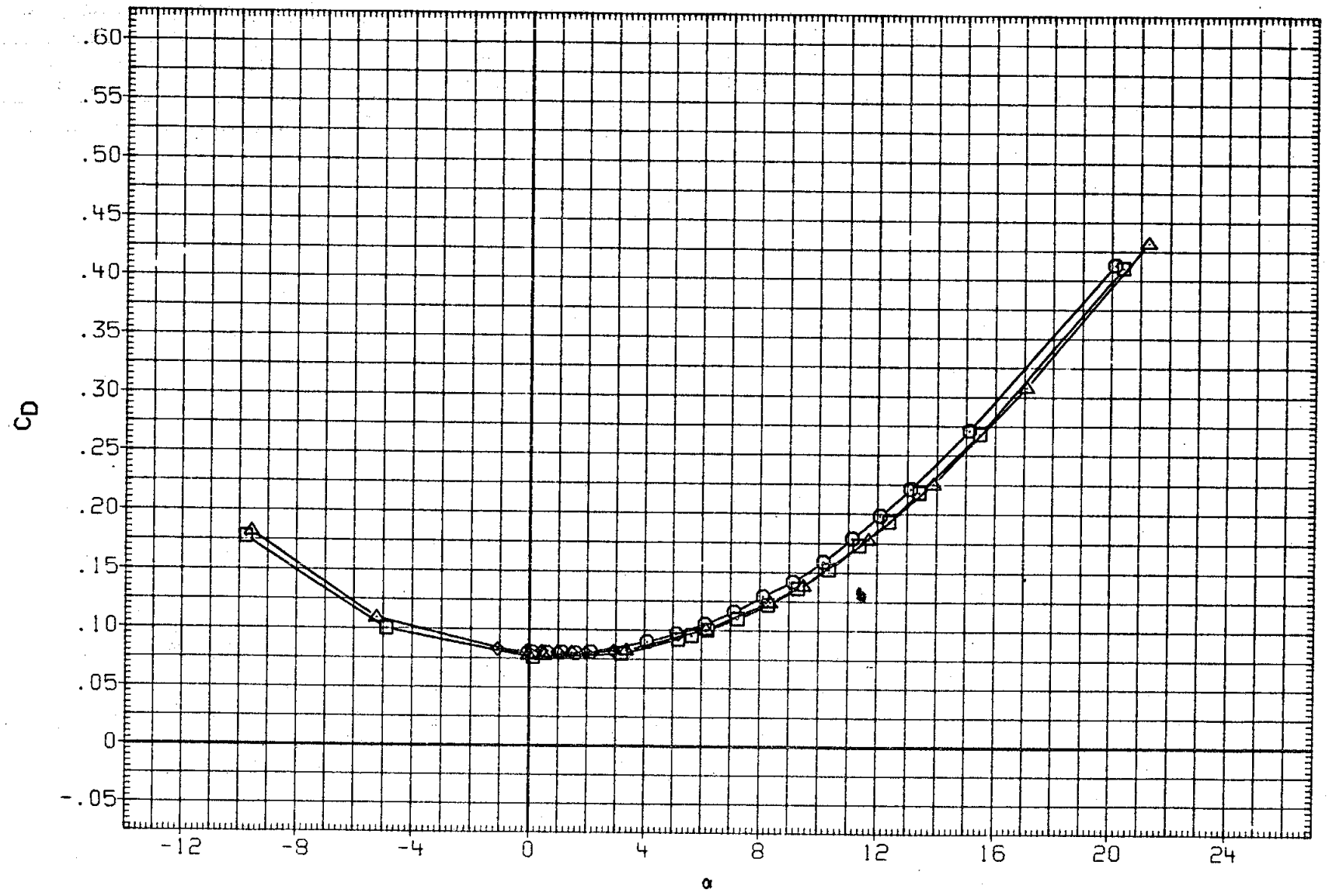

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN001	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	AMES 118-1-11 OA145A 01(INVERTED)	.000	.000	.000	.000	25.000	.000	

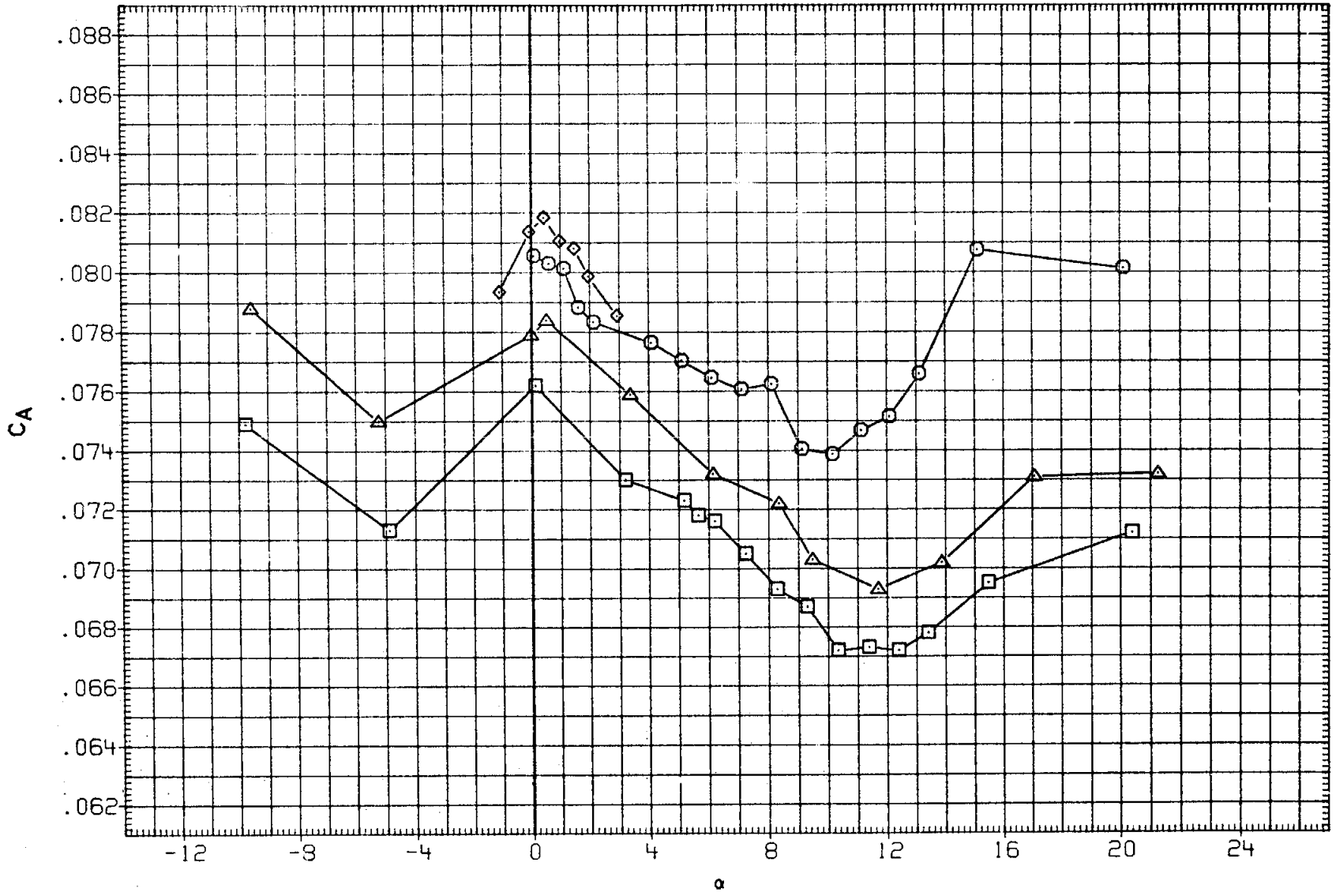

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN001	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	AMES 118-1-11 OA145A 01(INVERTED)	.000	.000	.000	.000	25.000	.000	

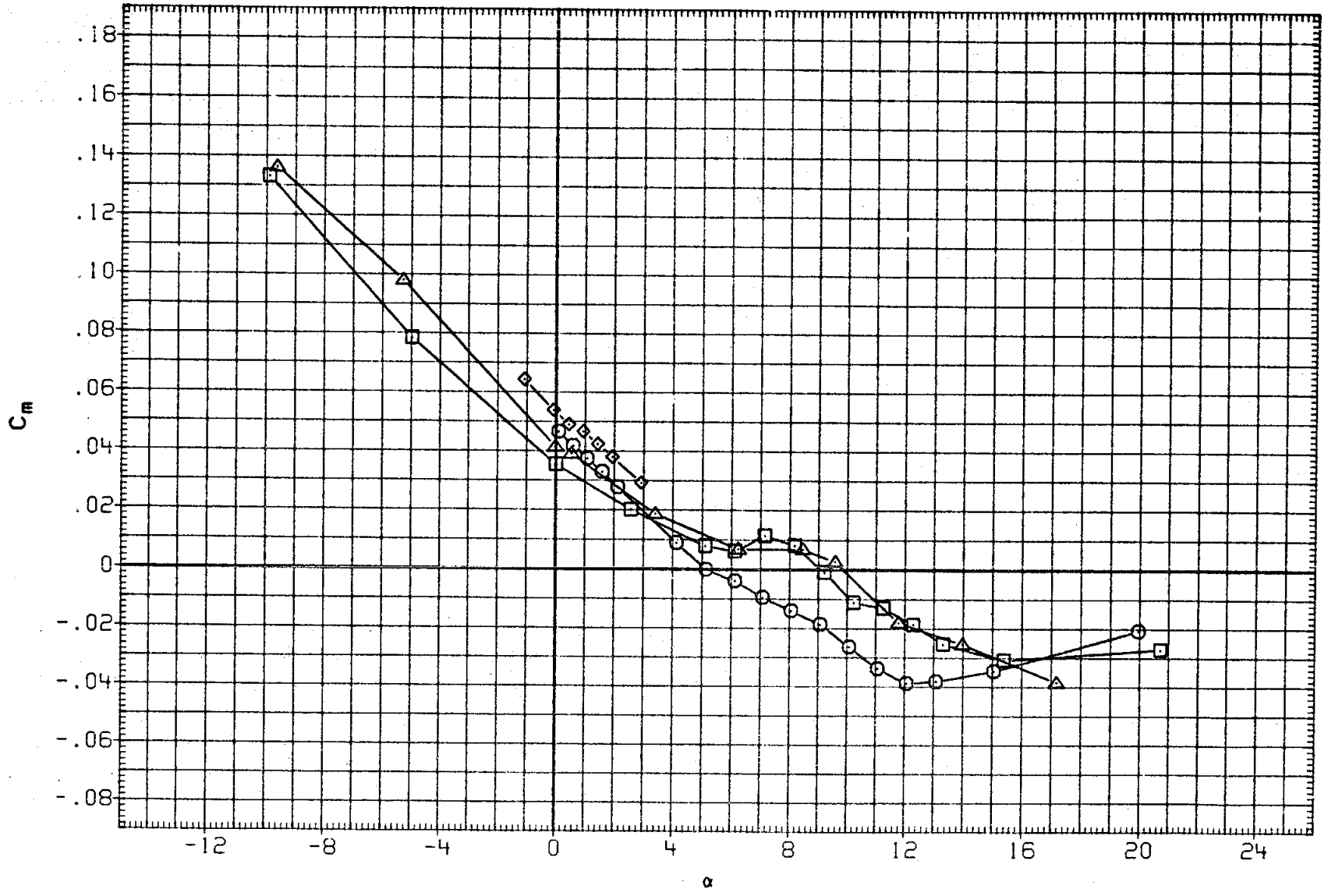

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN001	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	AMES 118-1-11 OA145A 01(INVERTED)	.000	.000	.000	.000	25.000	.000	

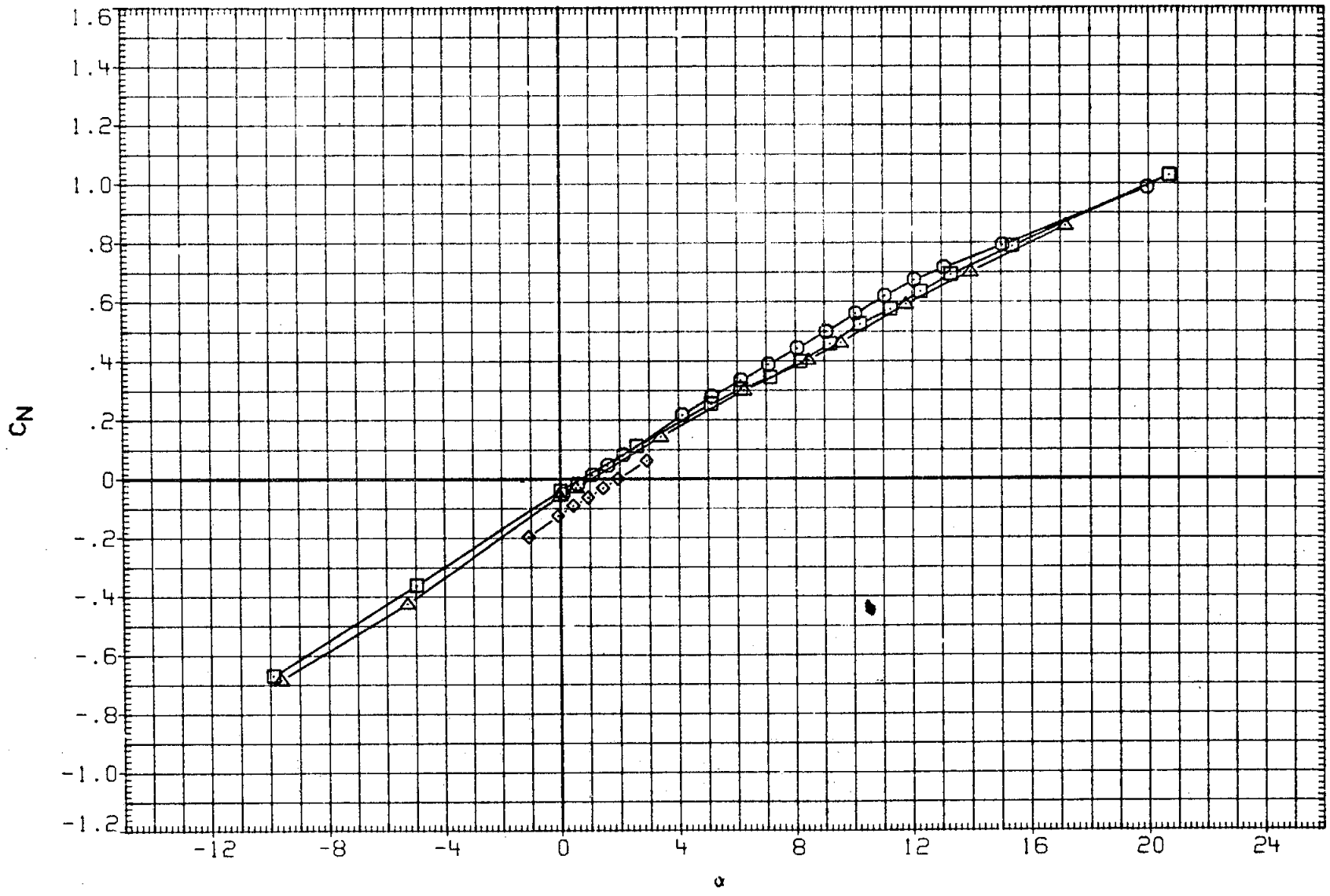

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN001	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	AMES 118-1-11 OA145A 01(INVERTED)	.000	.000	.000	.000	25.000	.000	

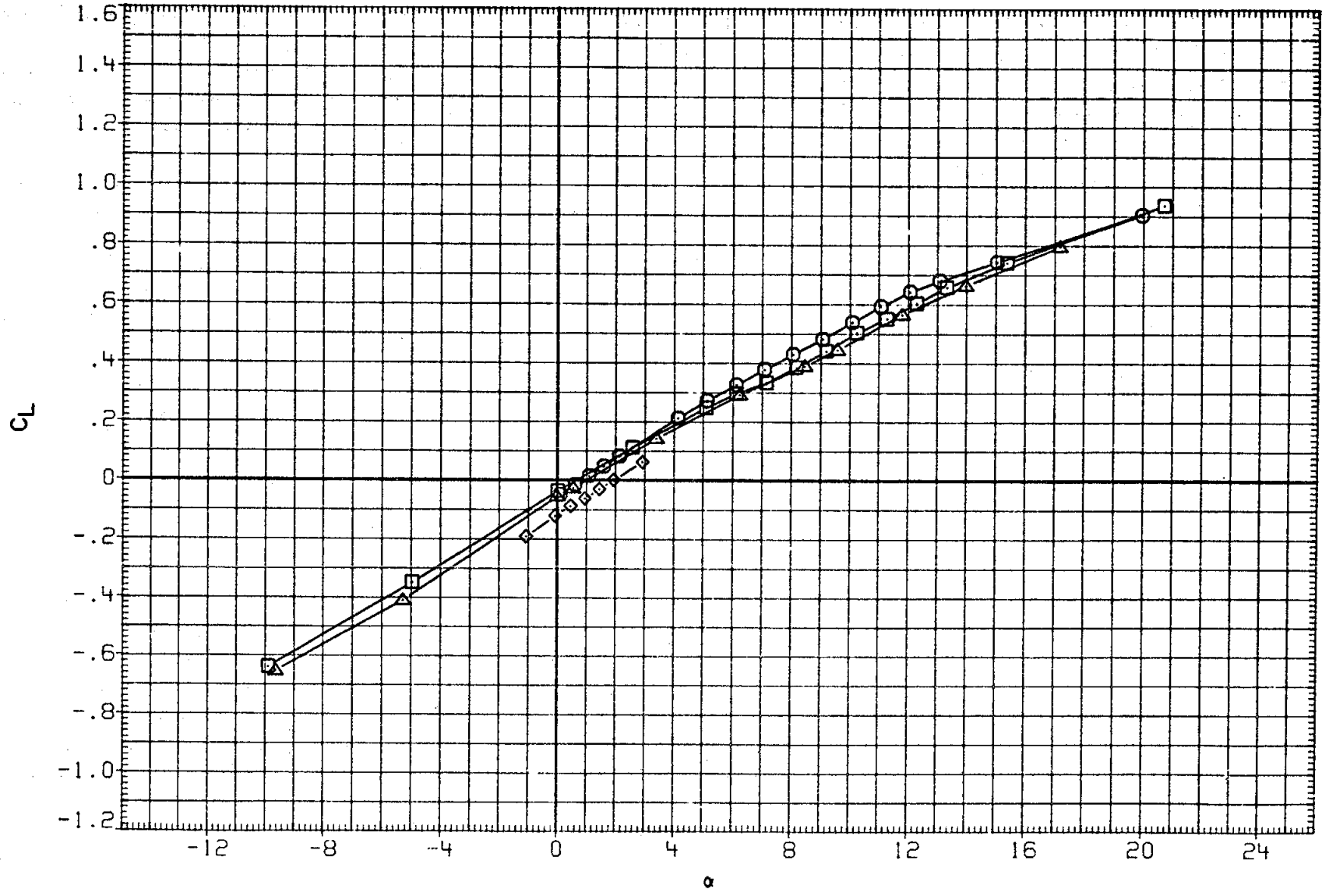

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN001	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	AMES 118-1-11 OA145A 01(INVERTED)	.000	.000	.000	.000	25.000	.000	

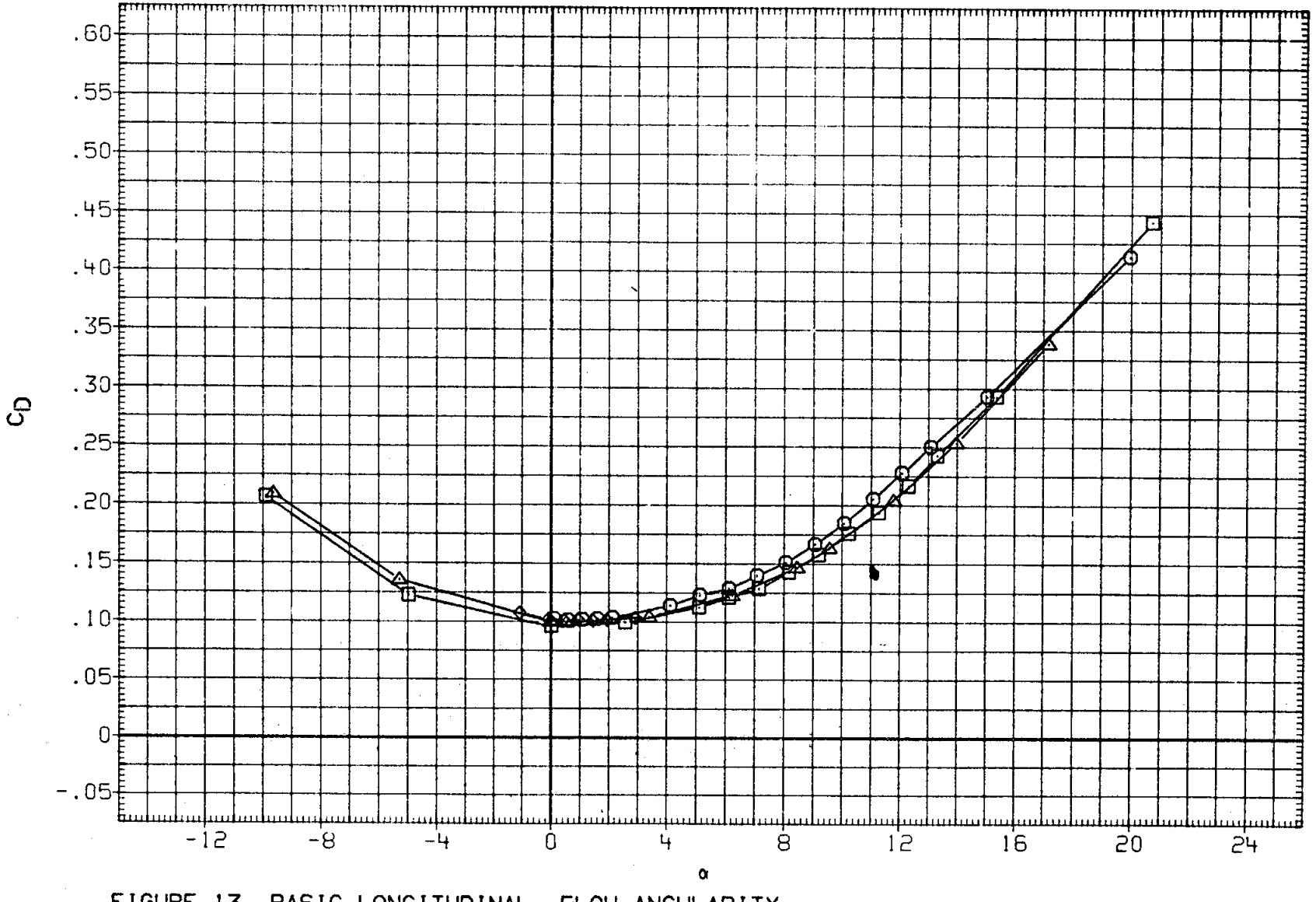

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN001	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	AMES 118-1-11 OA145A 01(INVERTED)	.000	.000	.000	.000	25.000	.000	

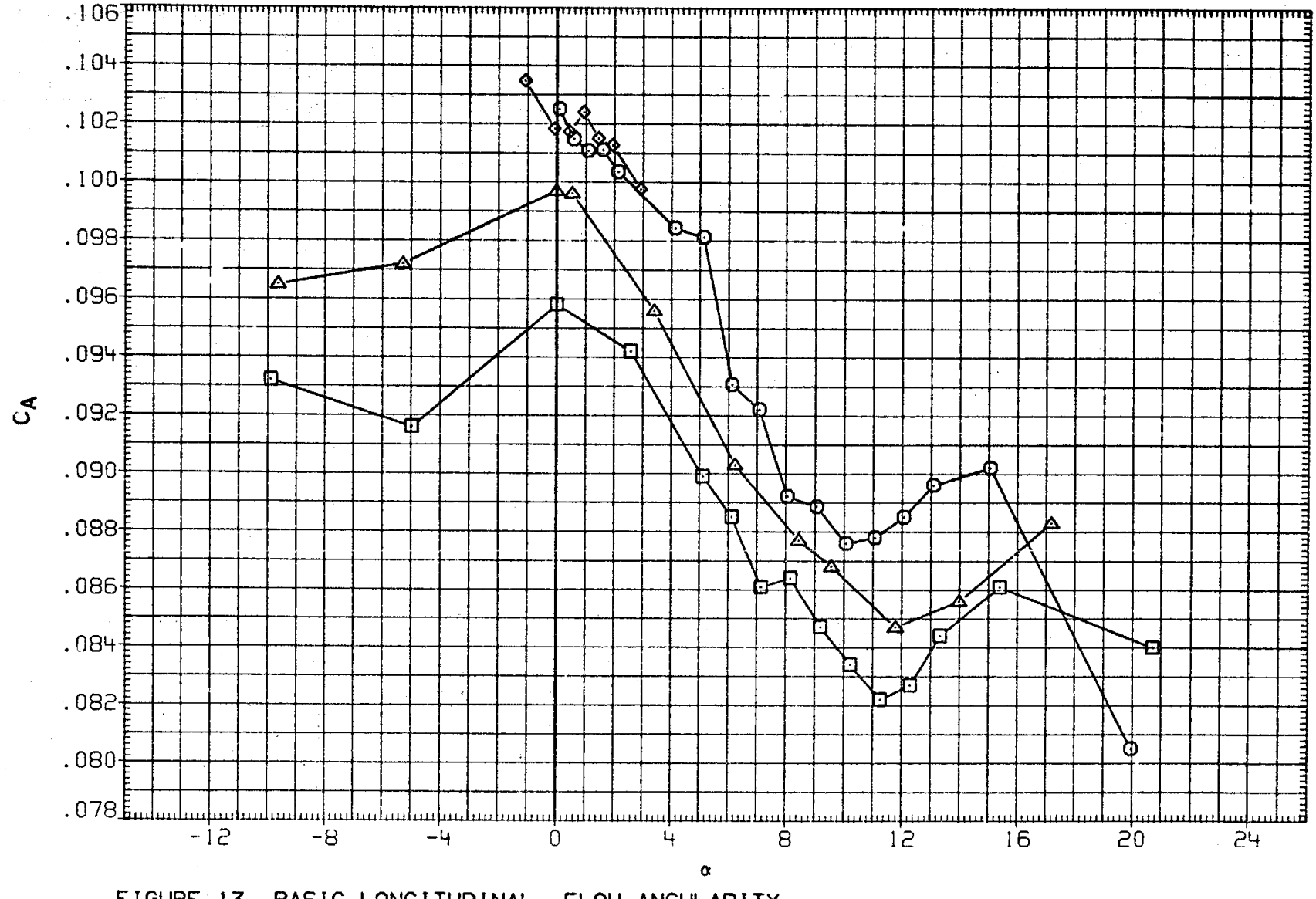

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RKN001	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	

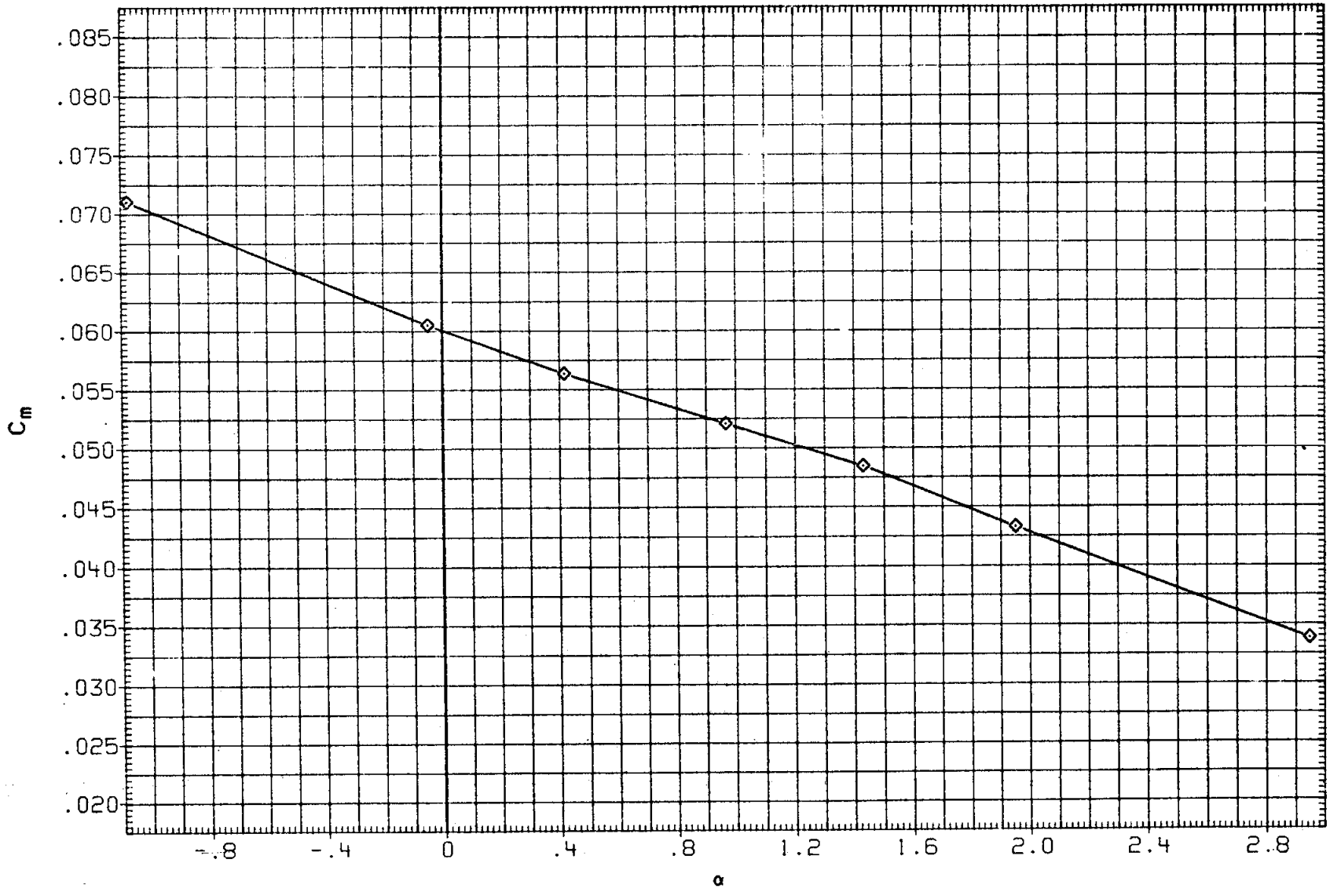

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RKN001	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	

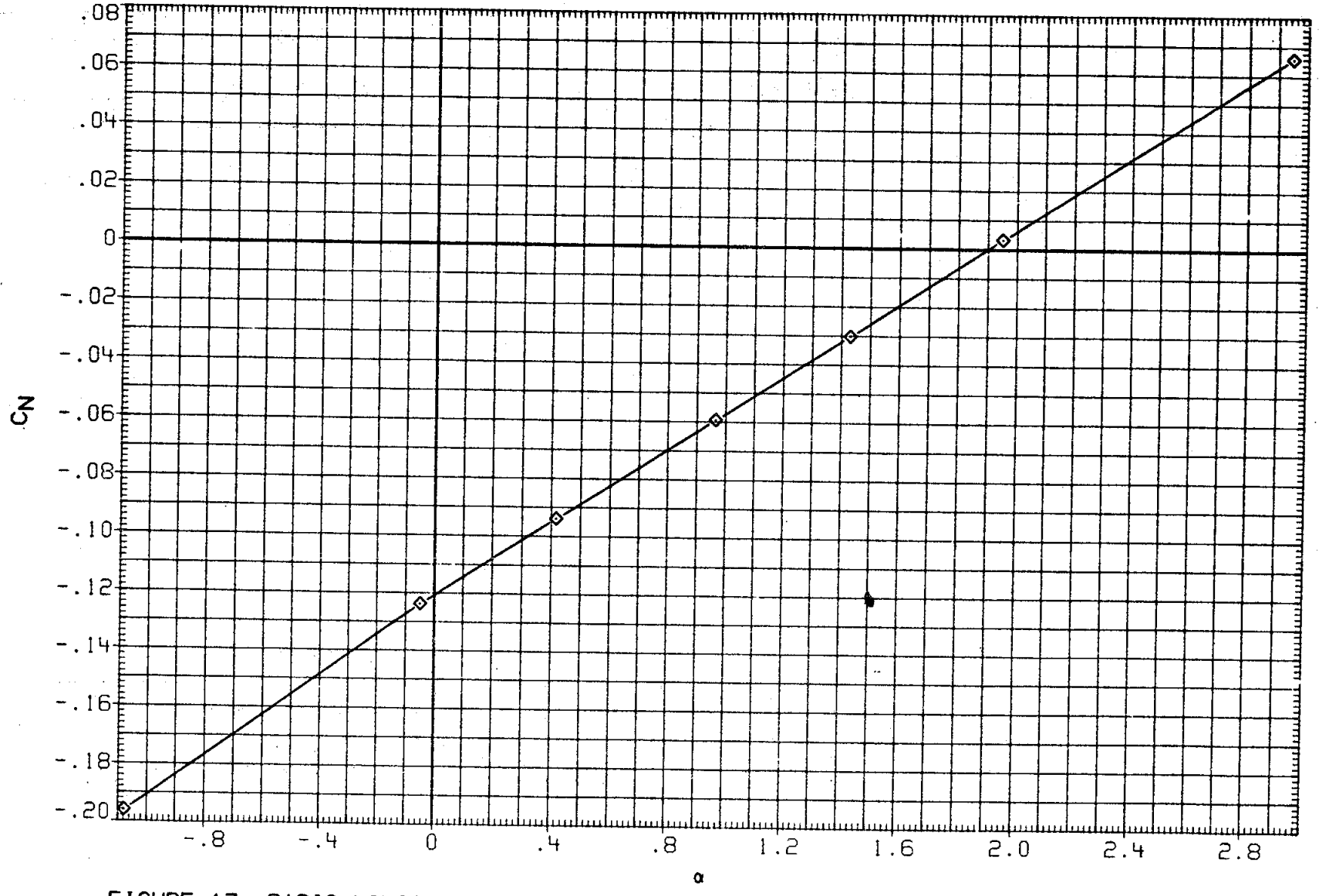

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RKN001	◇	LARC 16FT TWT 3261(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	

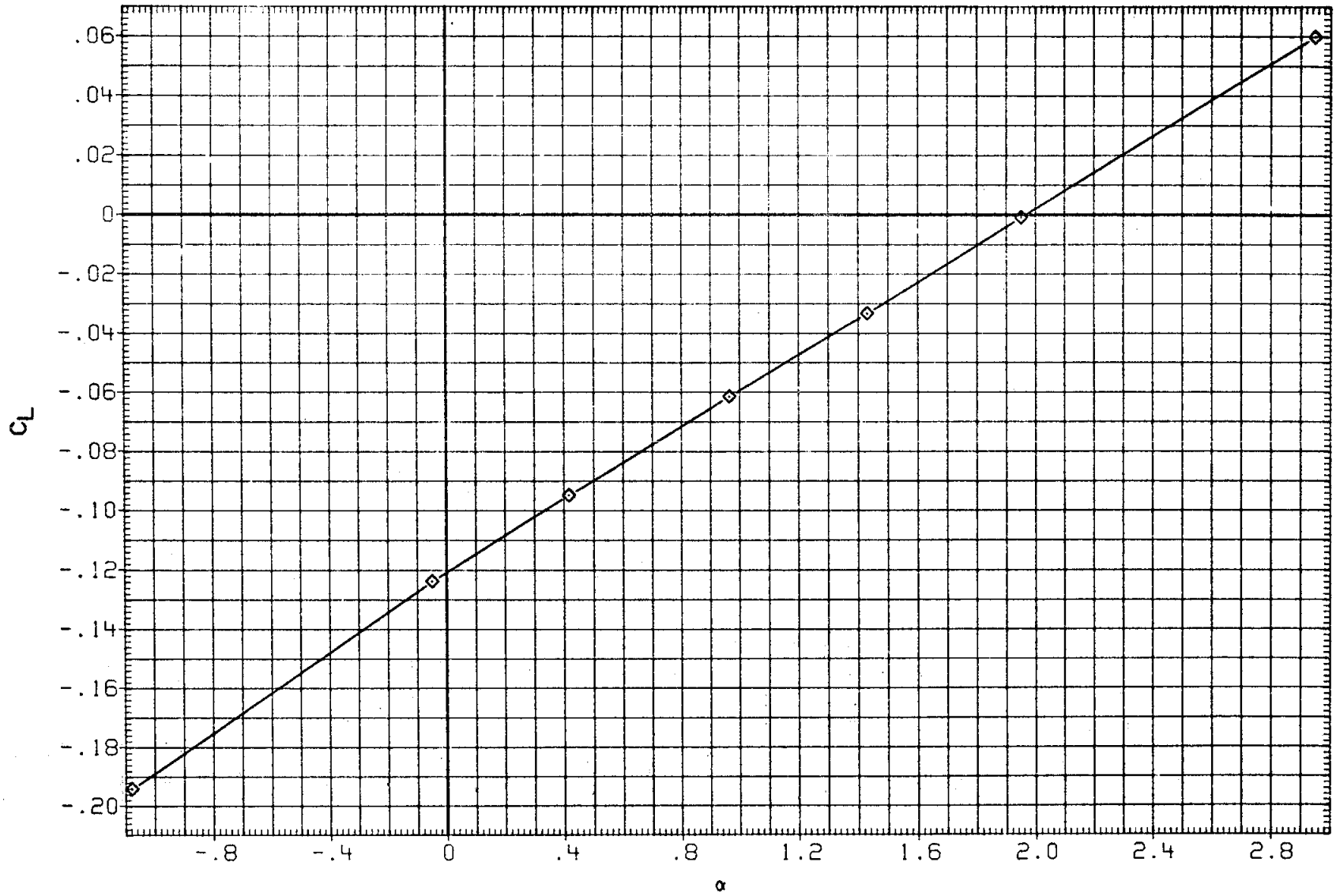

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RKN001	◇	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	

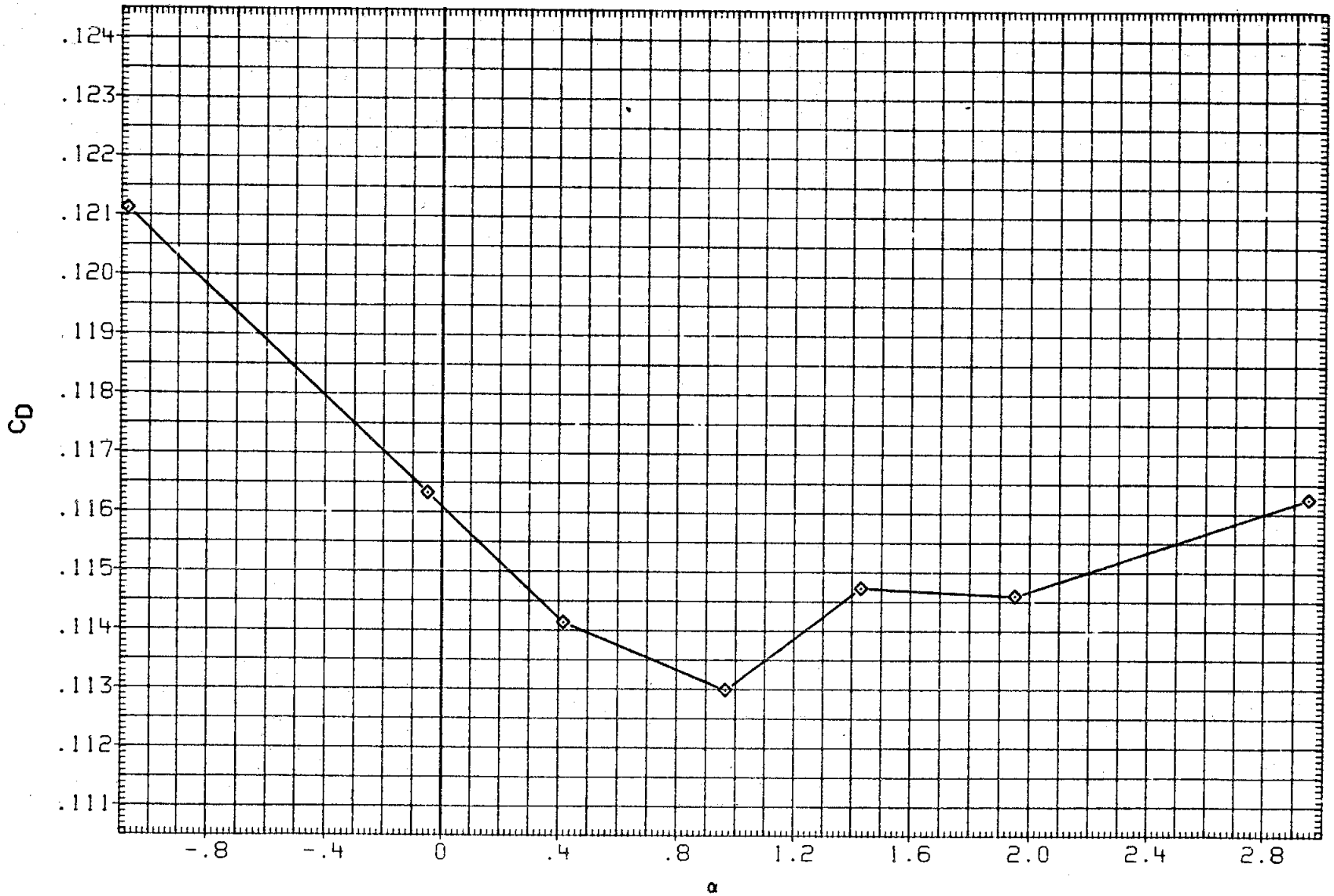

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RKN001	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	

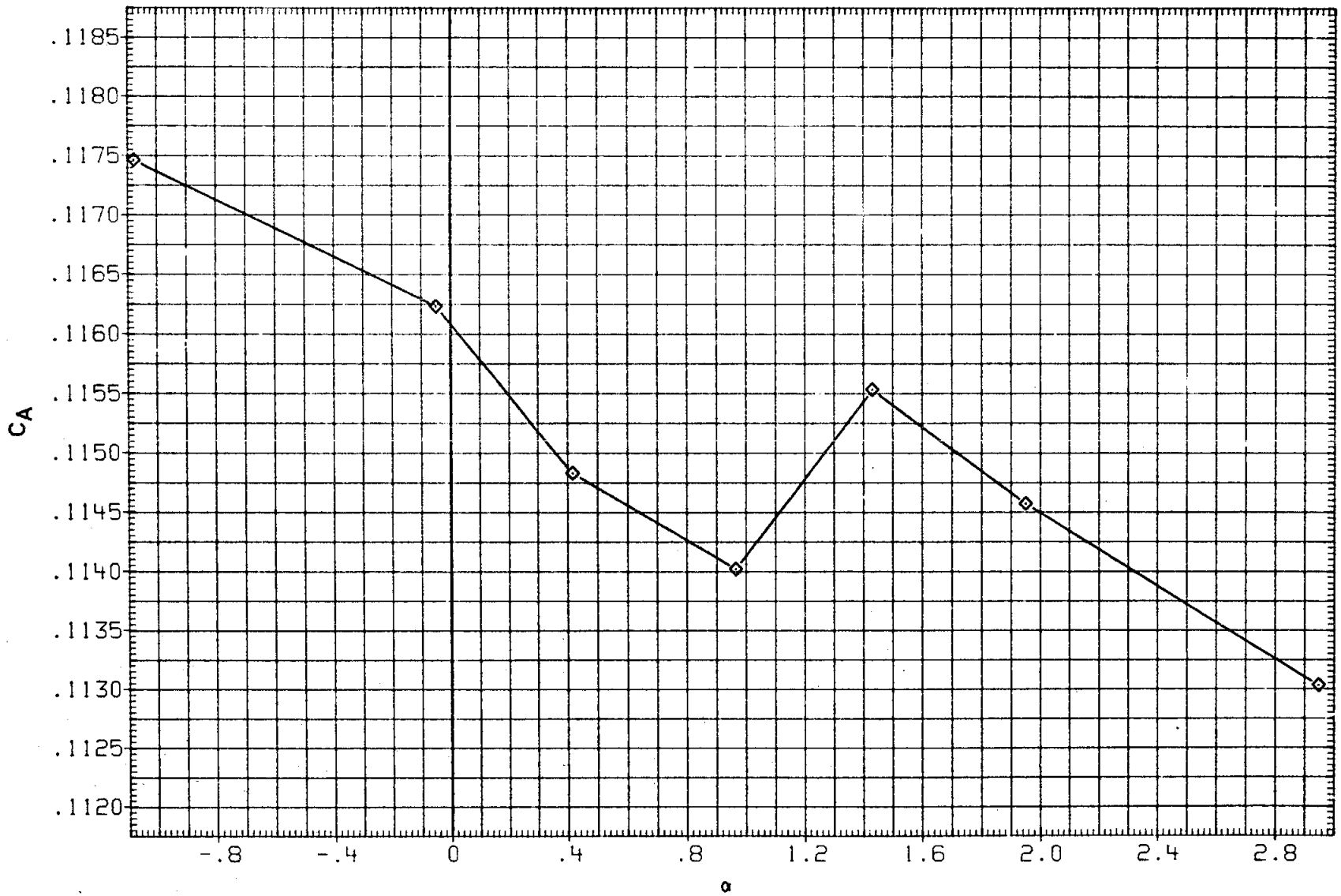

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN001	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	AMES 118-1-11 OA145A 01(INVERTED)	.000	.000	.000	.000	25.000	.000	

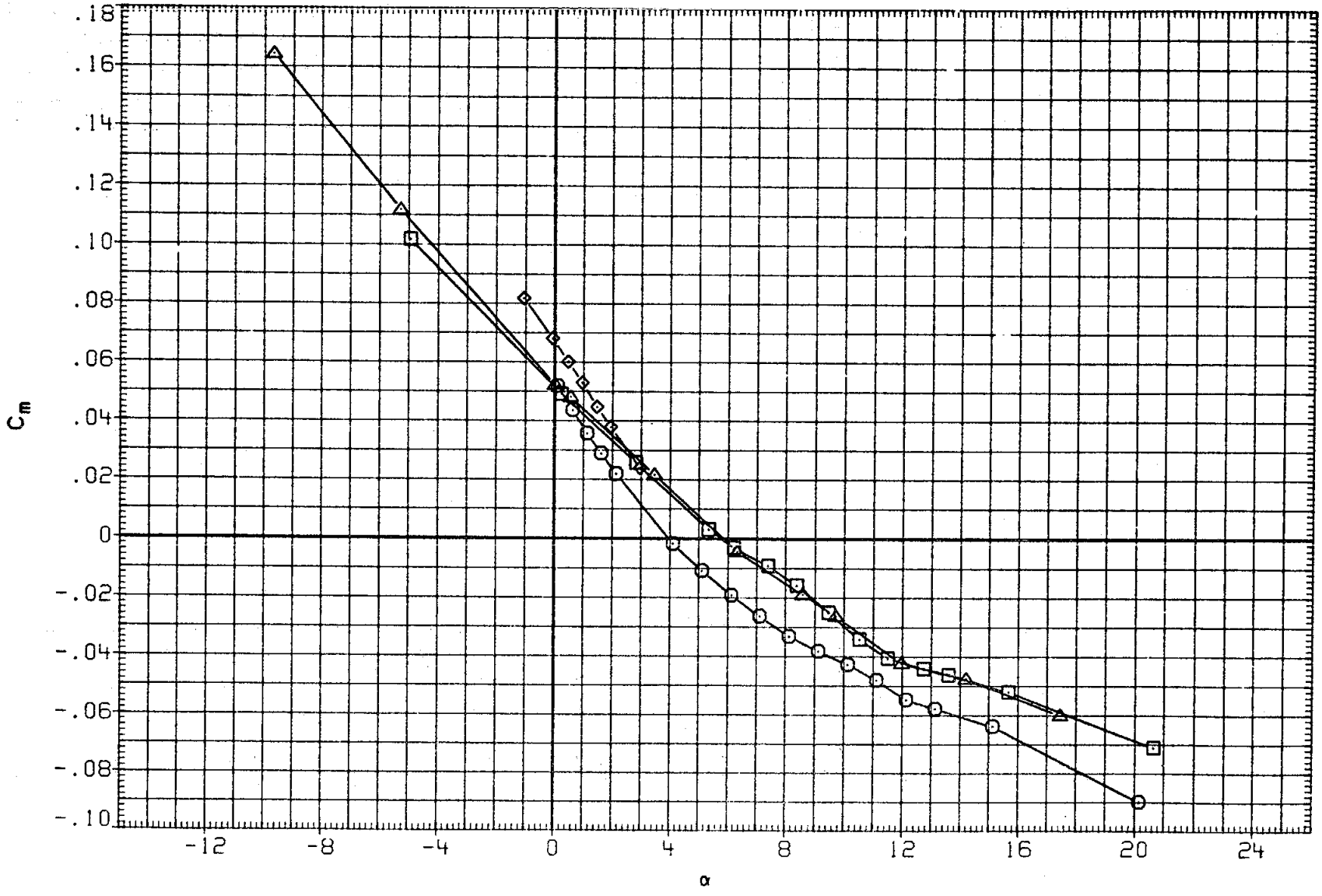

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN001	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	AMES 118-1-11 OA145A 01(INVERTED)	.000	.000	.000	.000	25.000	.000	

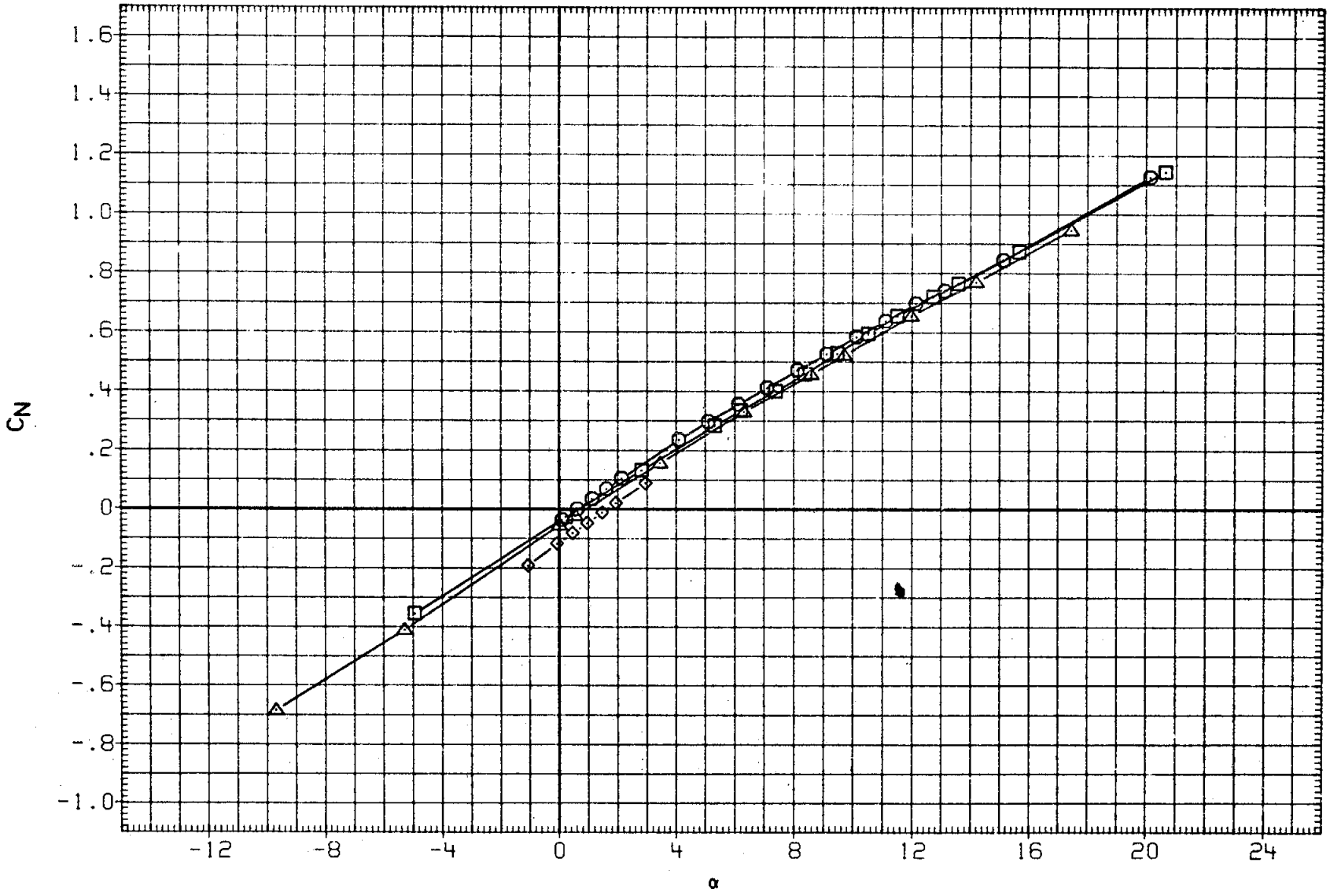

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN001	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	AMES 118-1-11 OA145A 01(INVERTED)	.000	.000	.000	.000	25.000	.000	

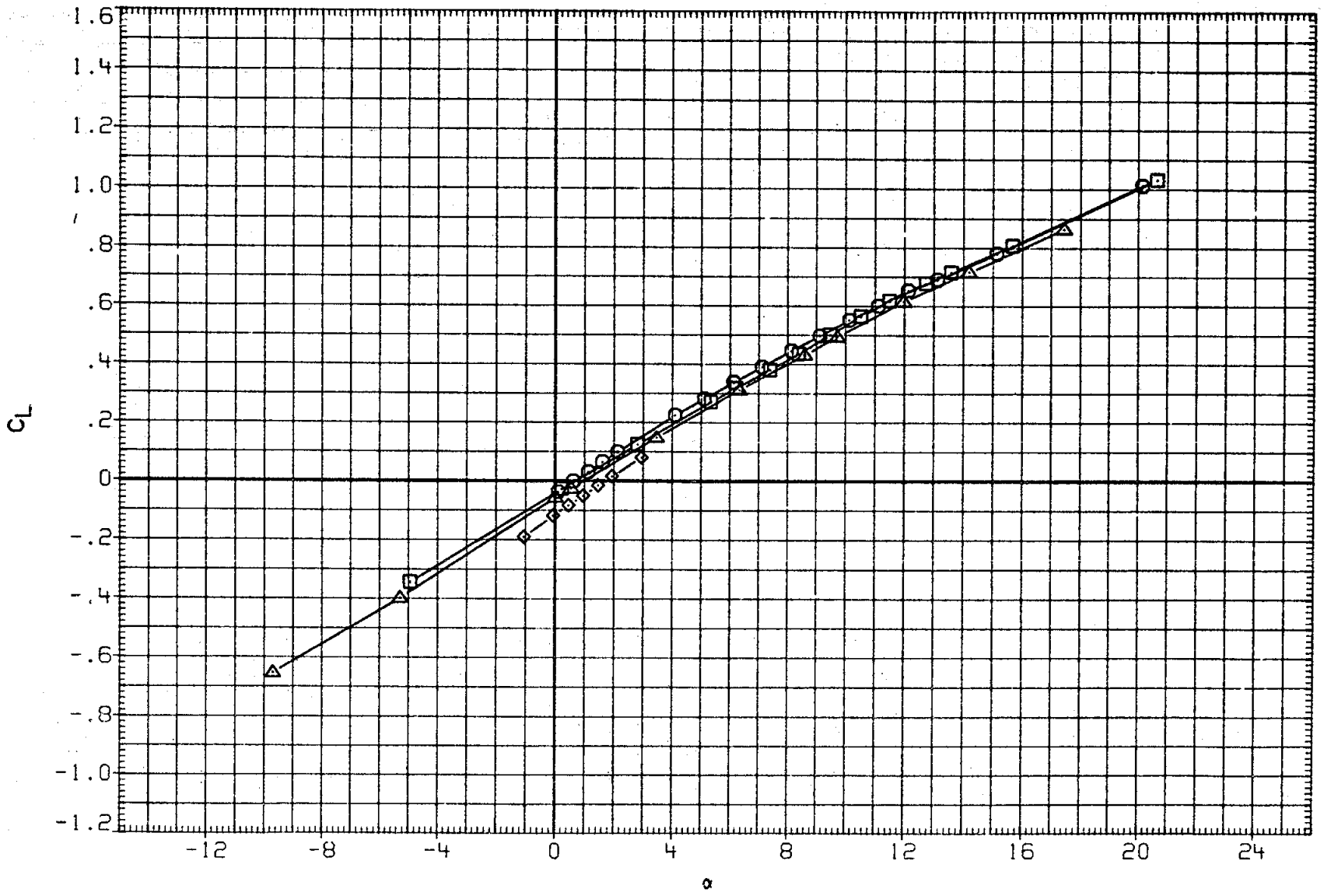

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN001	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	AMES 118-1-11 OA145A 01(INVERTED)	.000	.000	.000	.000	25.000	.000	

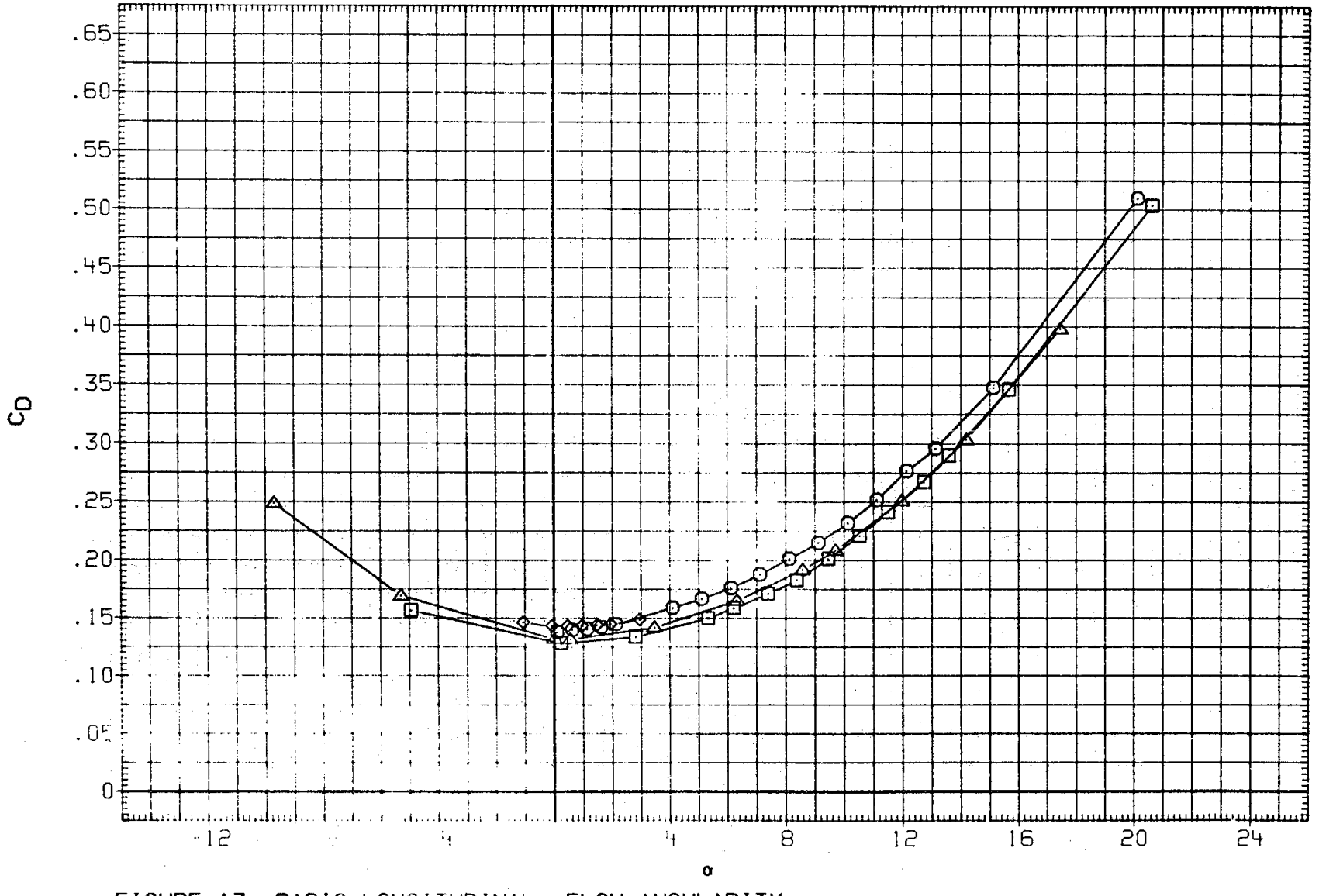

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN001	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	AMES 118-1-11 OA145A 01(INVERTED)	.000	.000	.000	.000	25.000	.000	

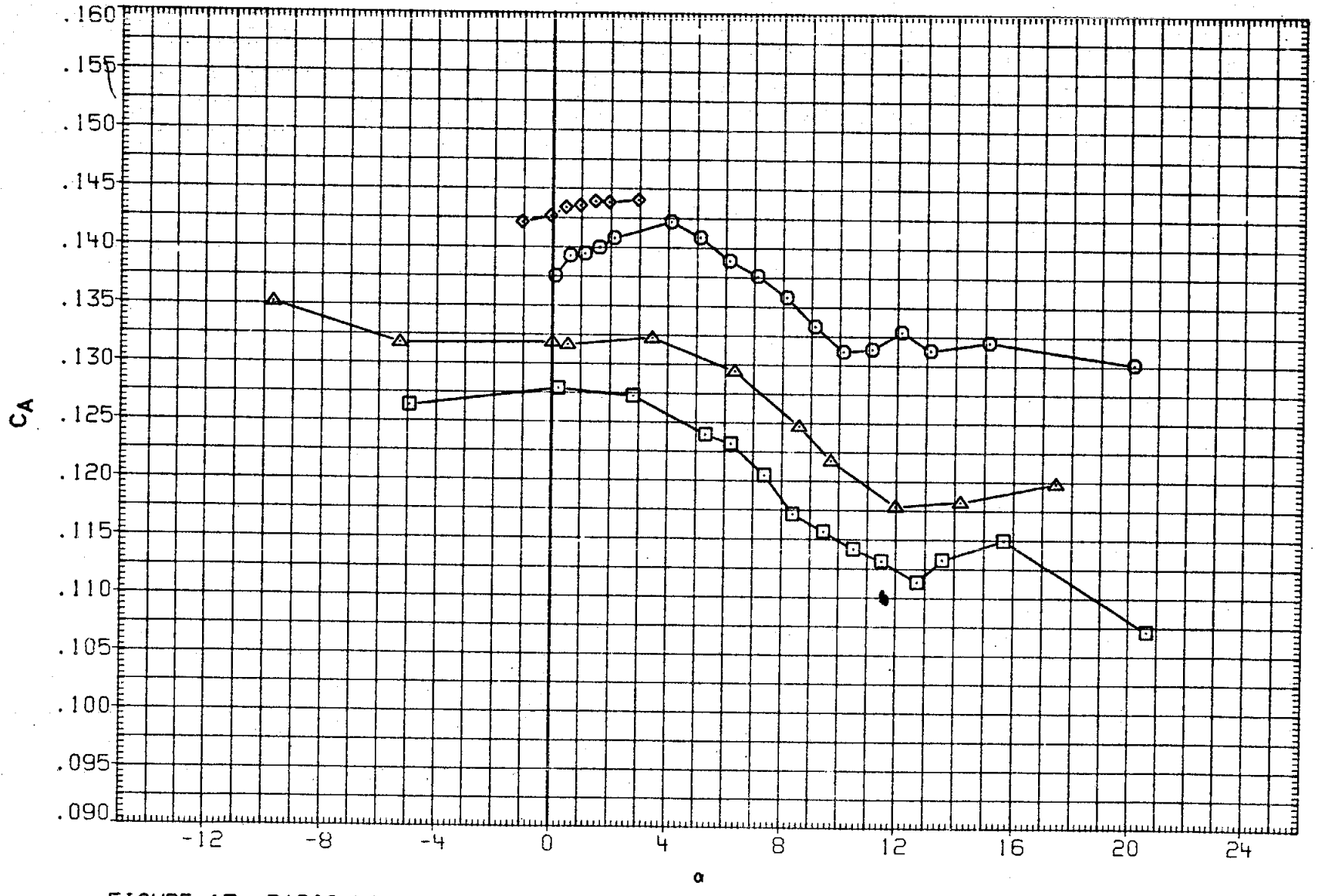

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN001	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	AMES 118-1-11 OA145A 01(INVERTED)	.000	.000	.000	.000	25.000	.000	

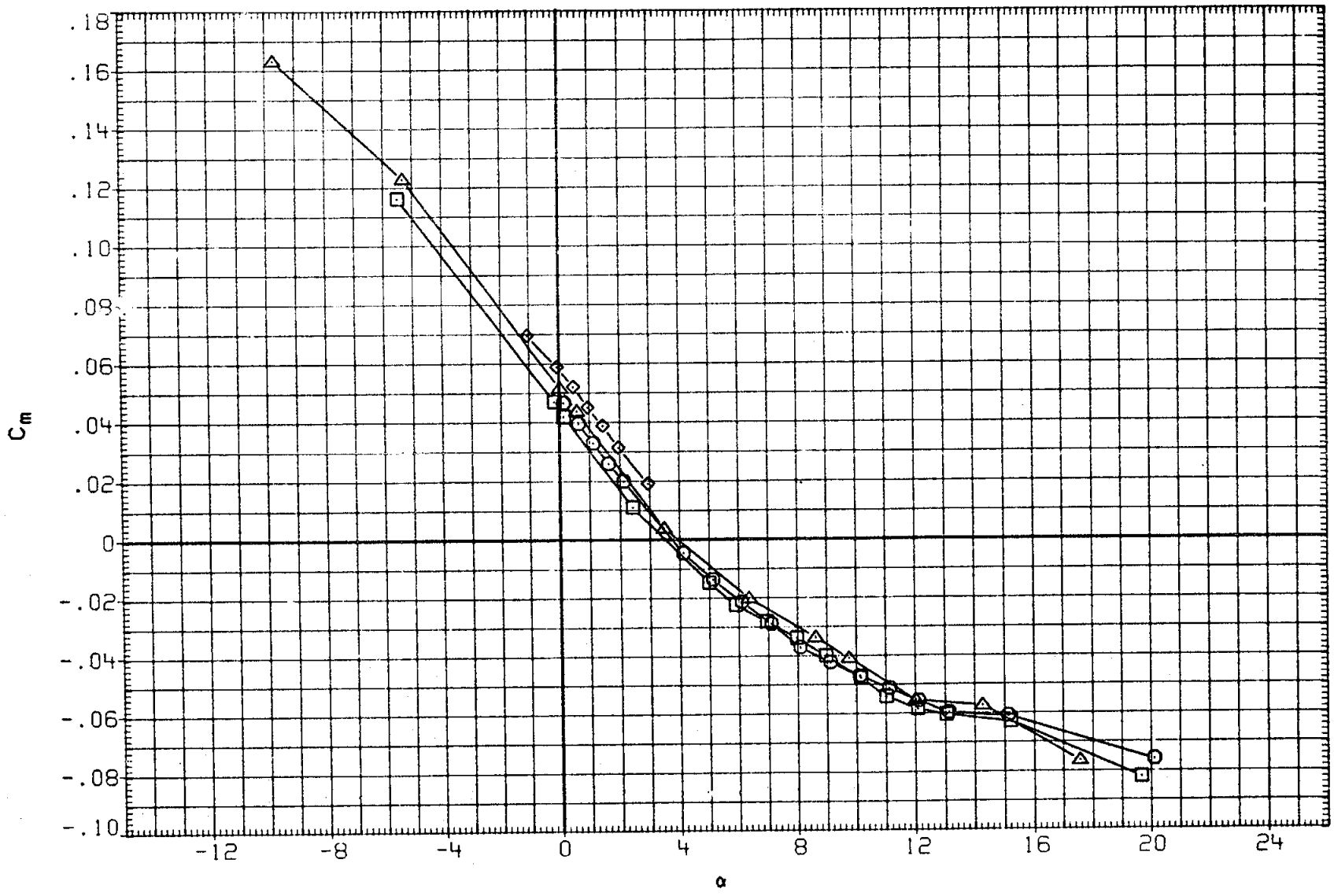

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN001	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	AMES 118-1-11 OA145A 01(INVERTED)	.000	.000	.000	.000	25.000	.000	

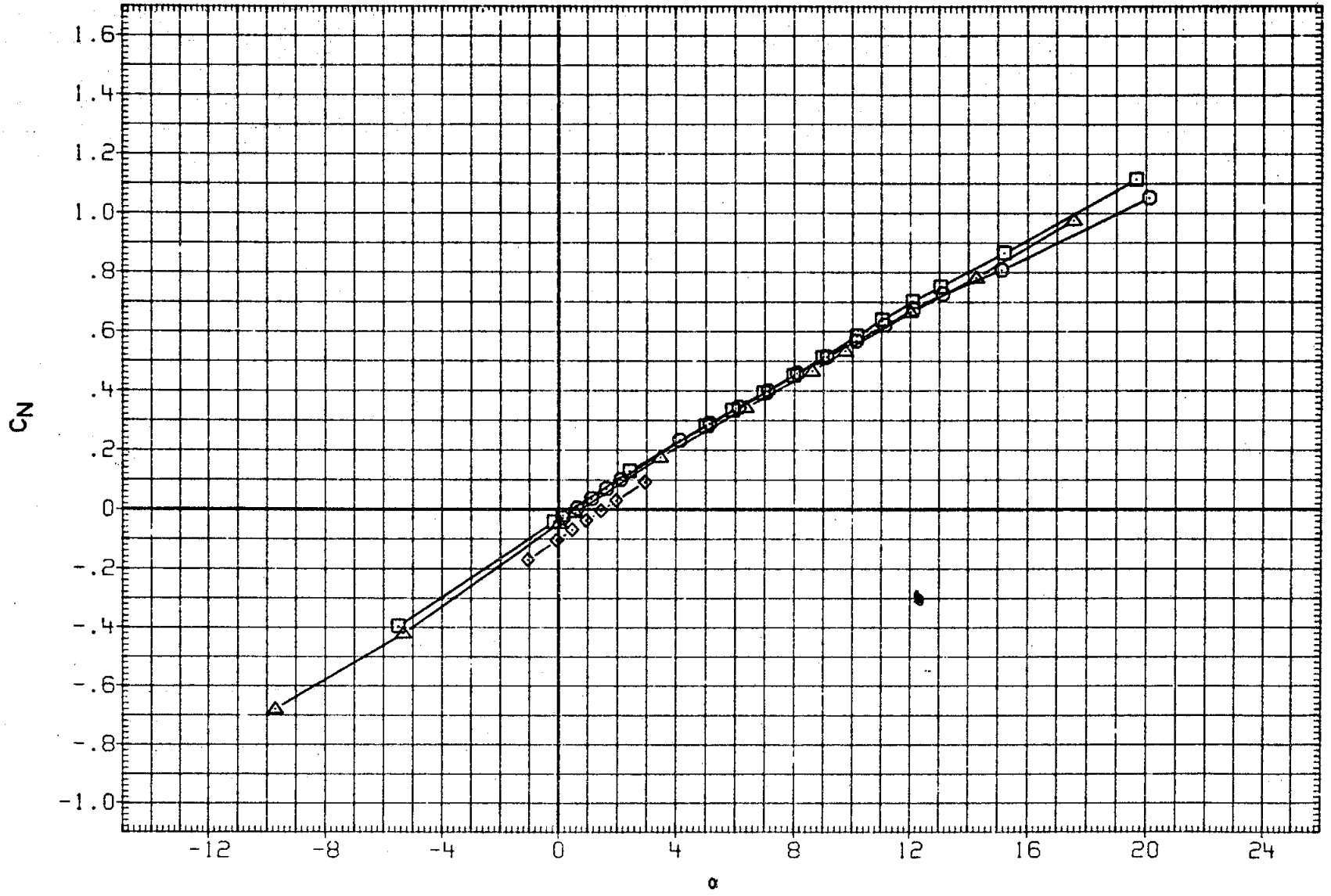

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN001	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	AMES 118-1-11 OA145A 01(INVERTED)	.000	.000	.000	.000	25.000	.000	

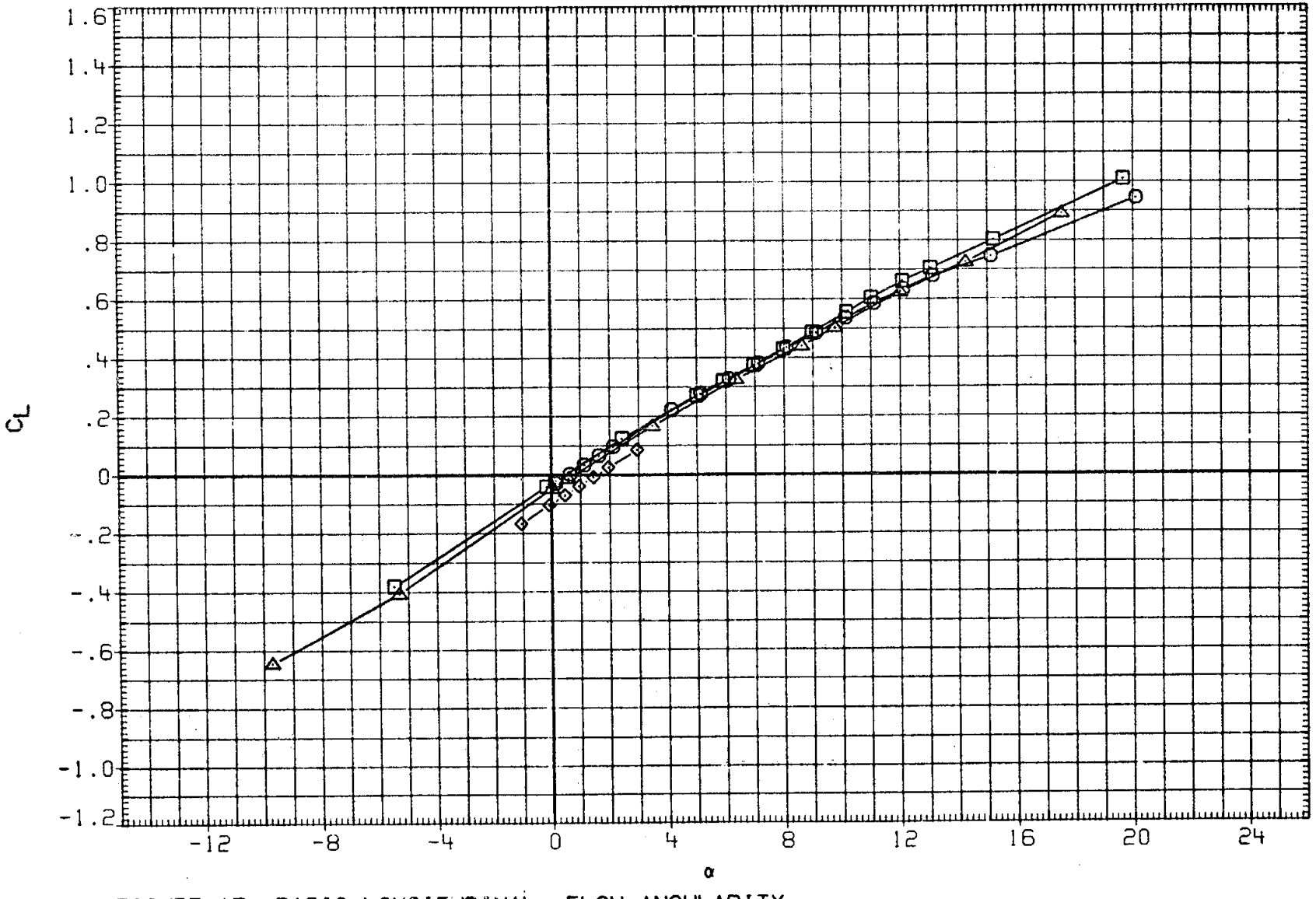

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN001	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	AMES 118-1-11 OA145A 01(INVERTED)	.000	.000	.000	.000	25.000	.000	

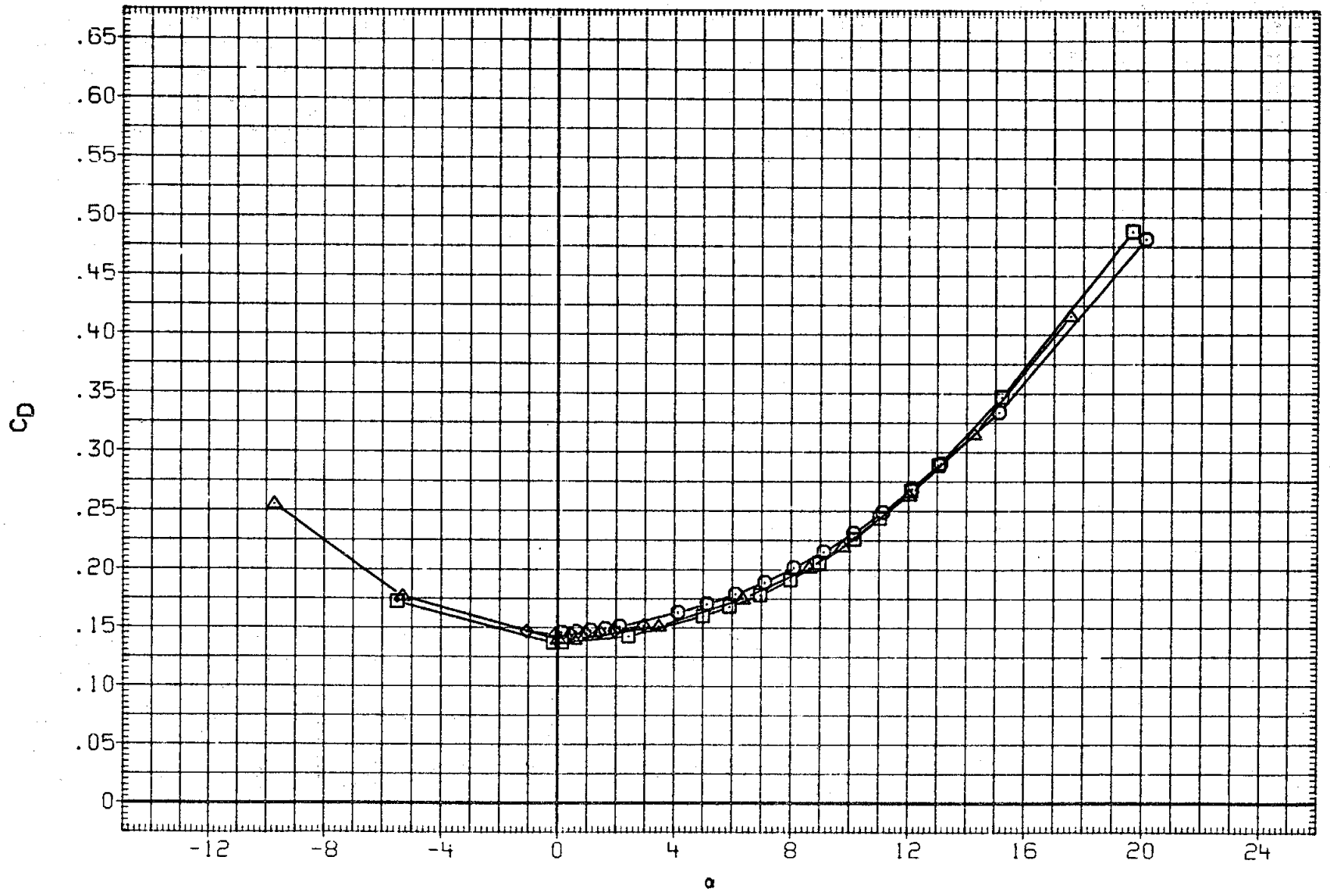

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN001	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	AMES 118-1-11 OA145A 01(INVERTED)	.000	.000	.000	.000	25.000	.000	

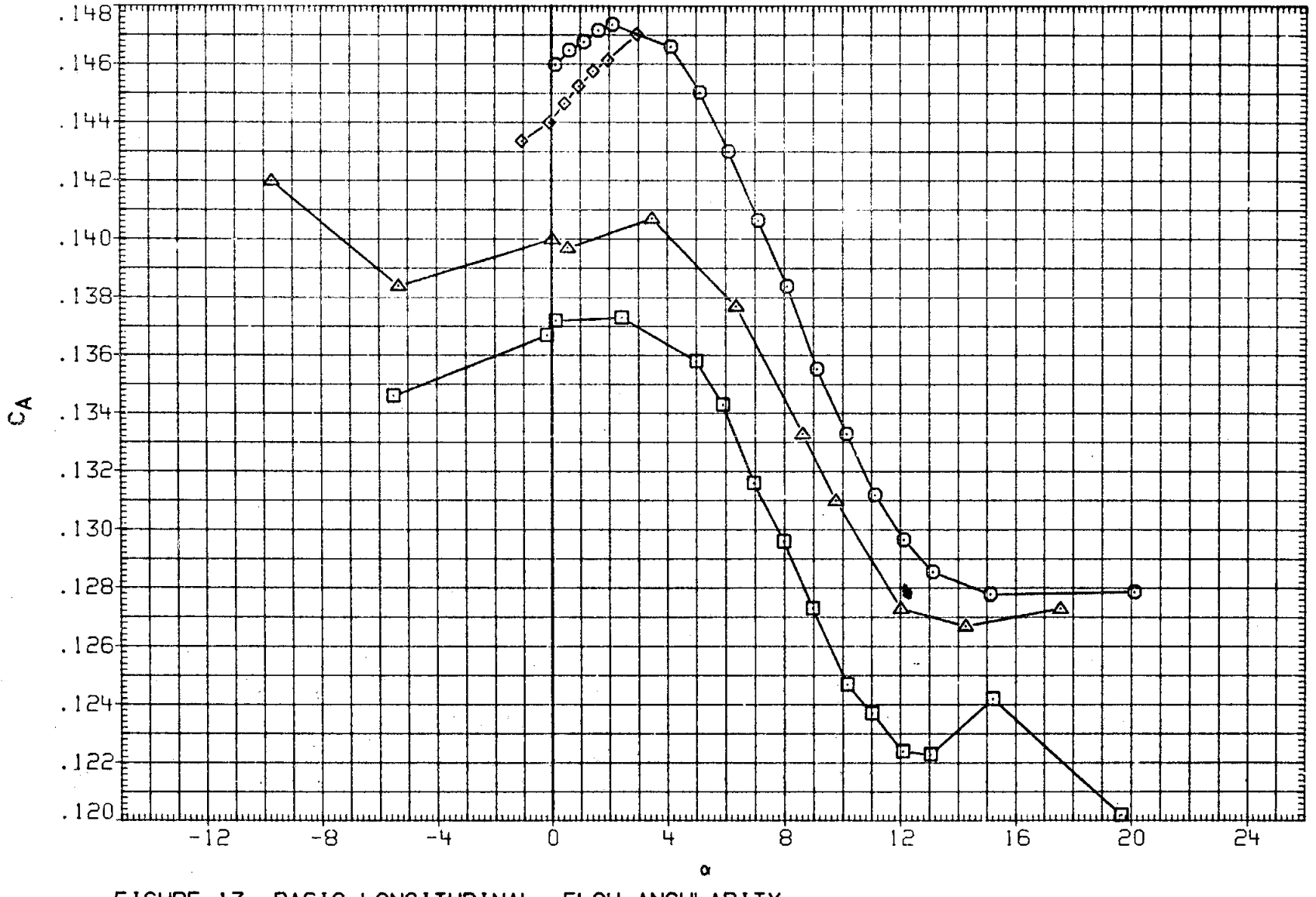

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN001	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	AMES 118-1-11 OA145A 01(INVERTED)	.000	.000	.000	.000	25.000	.000	

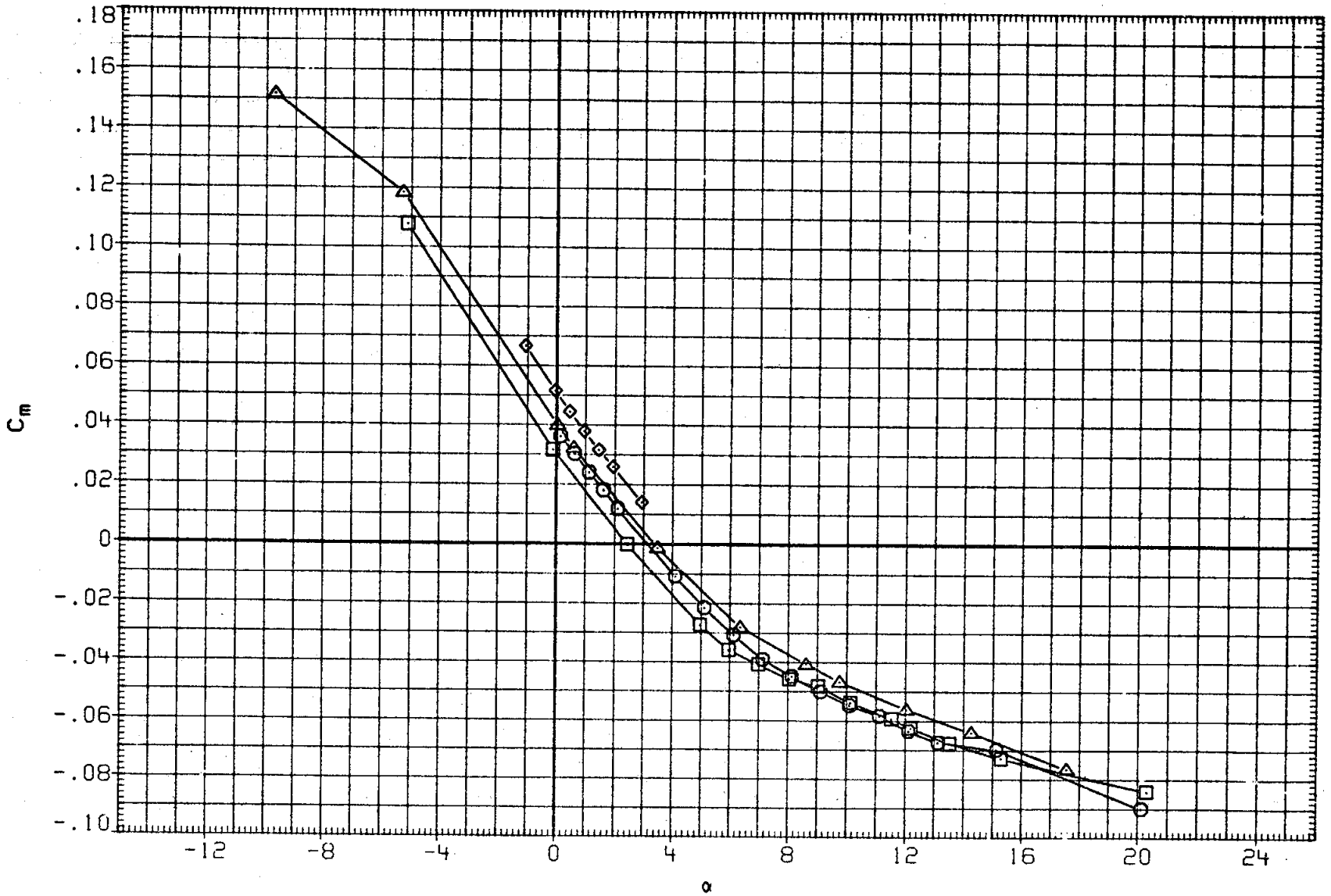

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN001	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	AMES 118-1-11 OA145A 01(INVERTED)	.000	.000	.000	.000	25.000	.000	

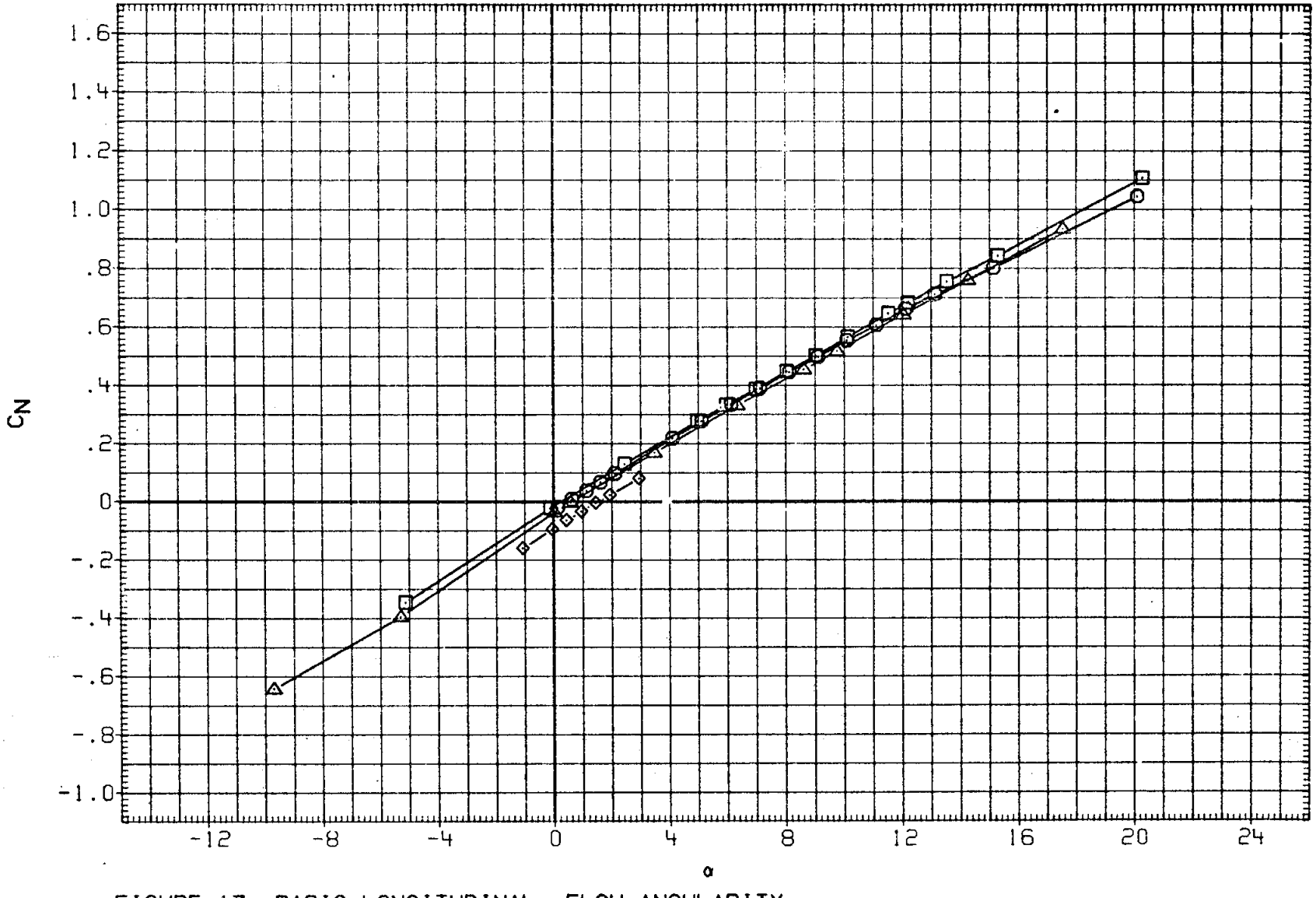

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN001	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	AMES 118-1-11 OA145A 01(INVERTED)	.000	.000	.000	.000	25.000	.000	

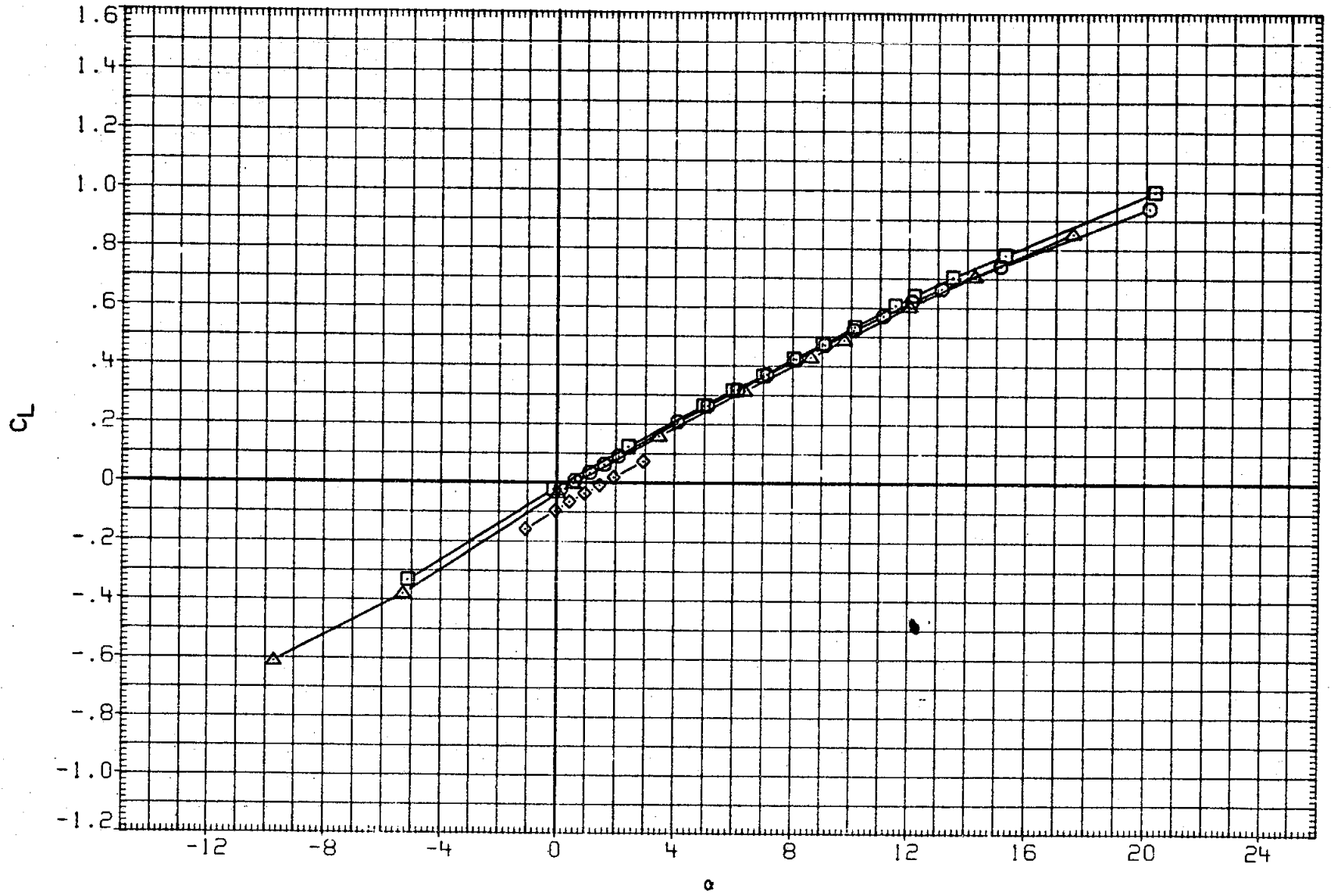

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	AMES 11B-1-11 0A145A 01	.000	.000	.000	.000	25.000	.000	
RKN001	◇	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	AMES 11B-1-11 0A145A 01(INVERTED)	.000	.000	.000	.000	25.000	.000	

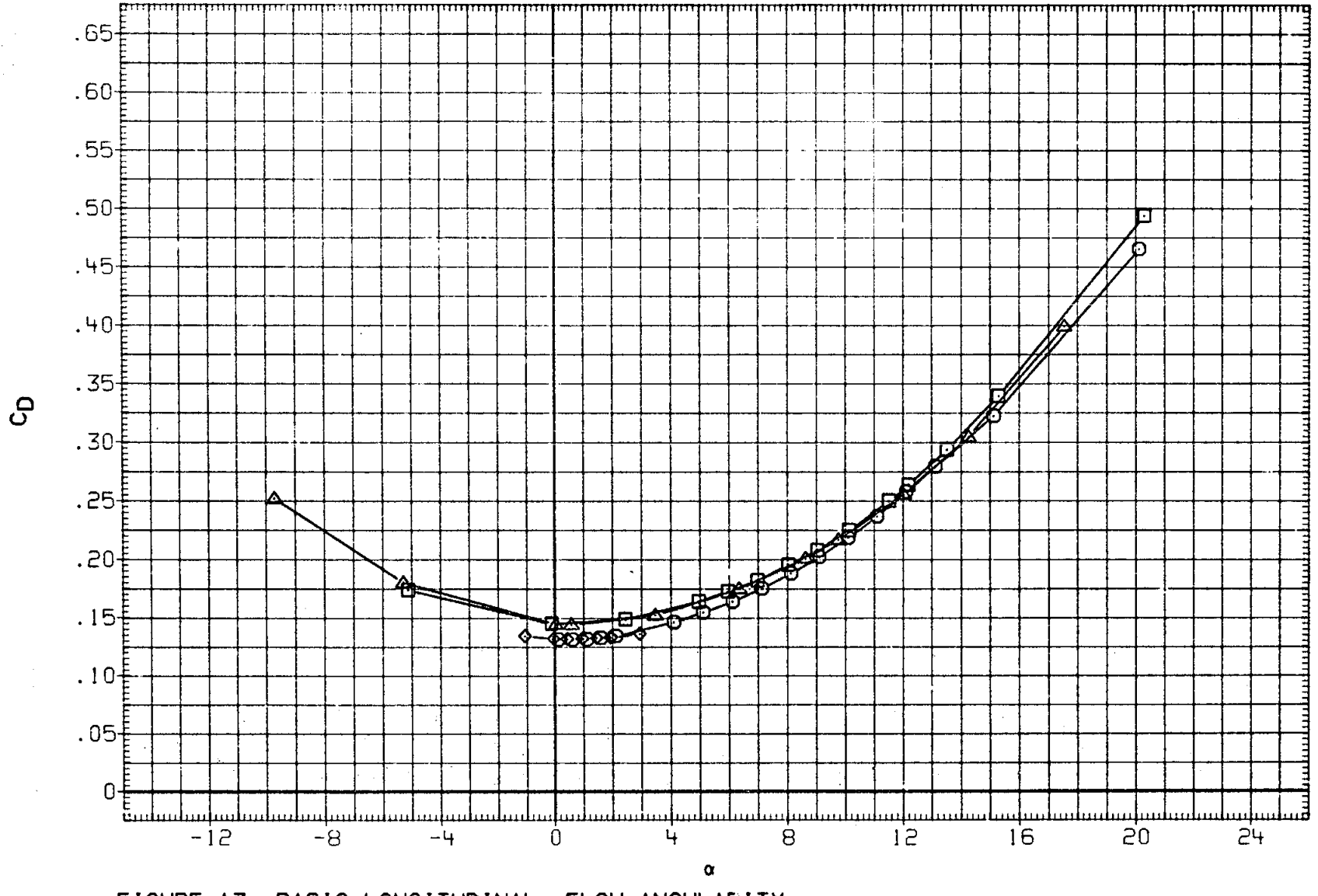

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN001	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	AMES 118-1-11 OA145A 01(INVERTED)	.000	.000	.000	.000	25.000	.000	

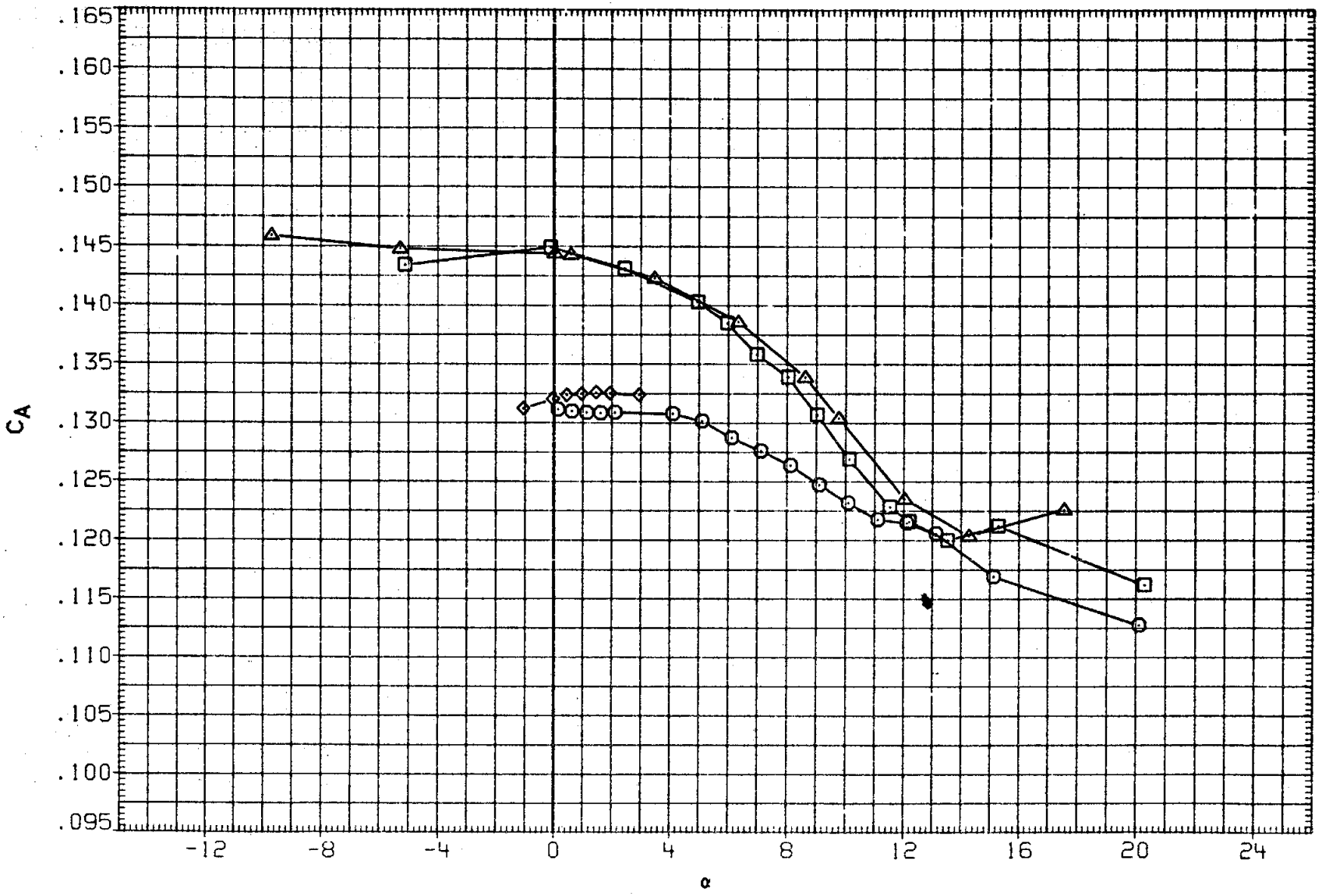

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RKN001	◇	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	

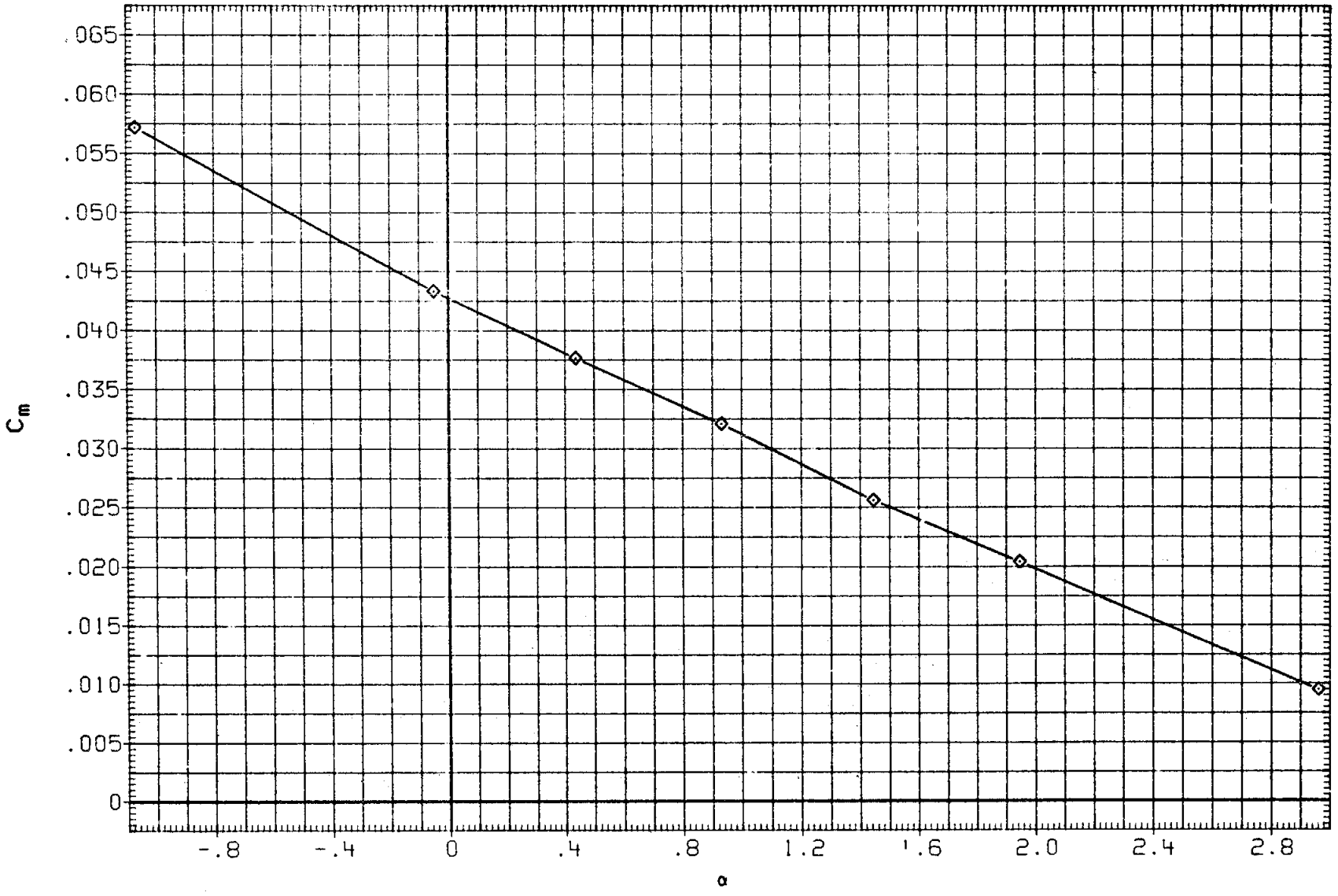

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(I)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RKN001	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	

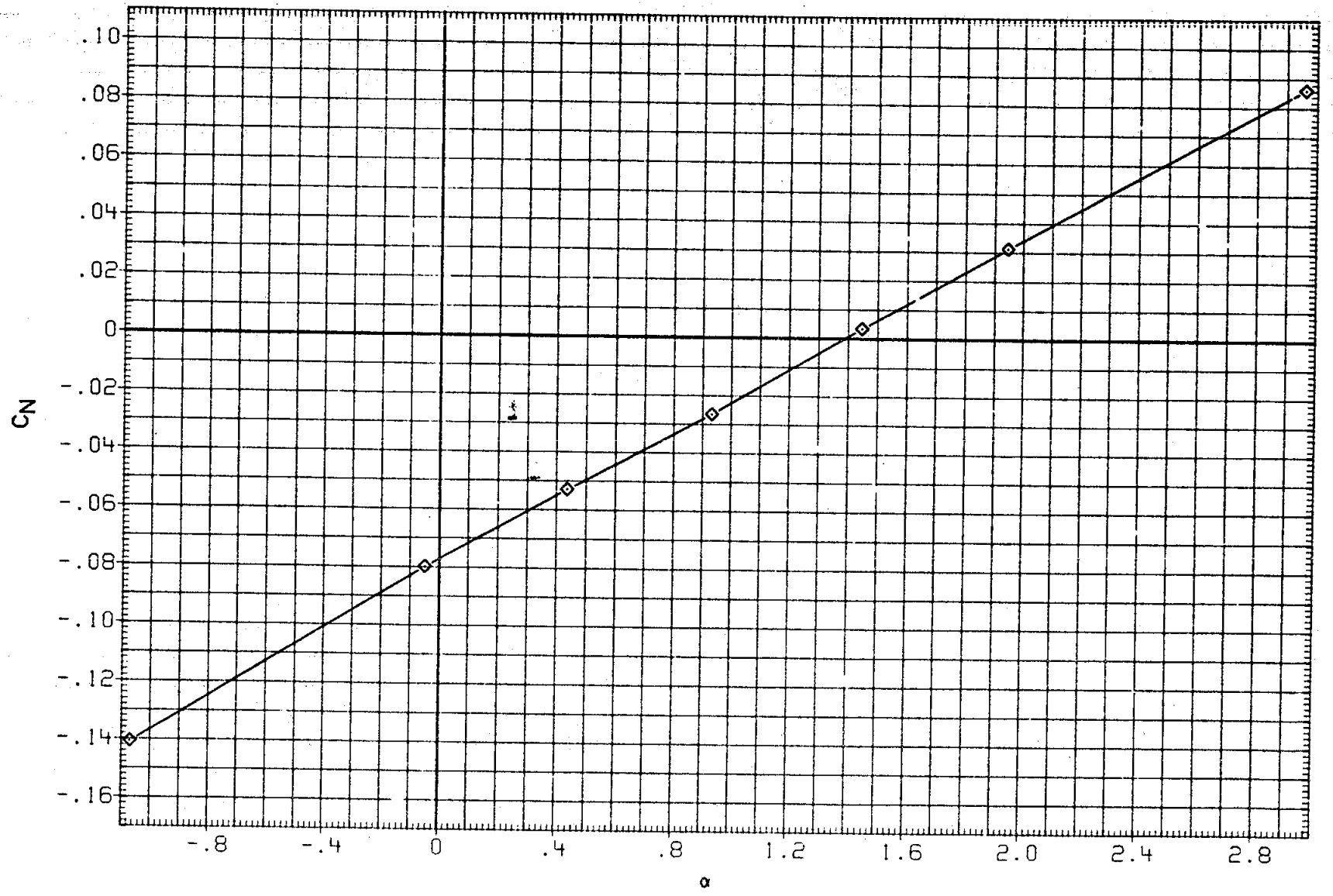

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(I)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RKN001	◇	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	

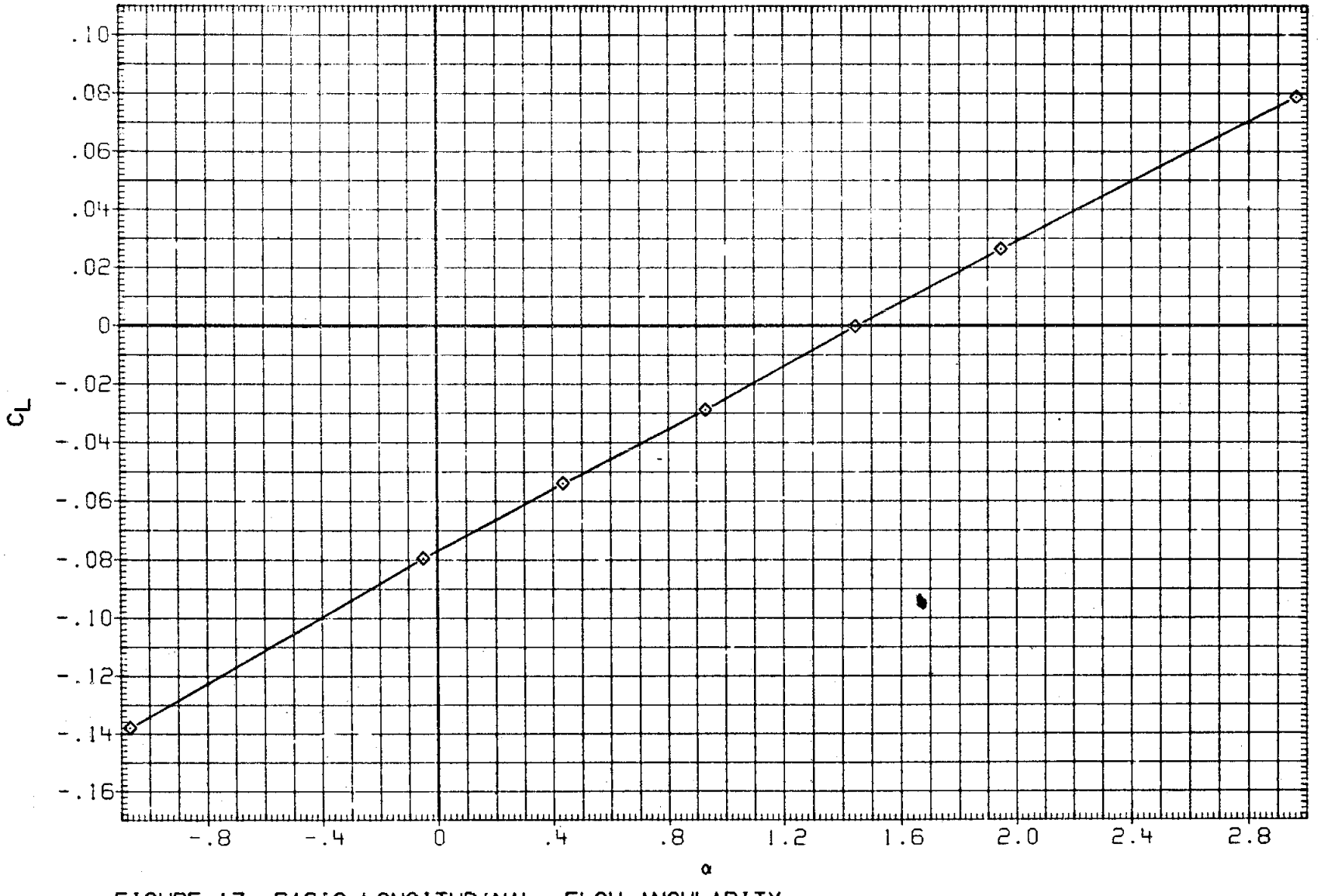

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(I)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RKN001	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	

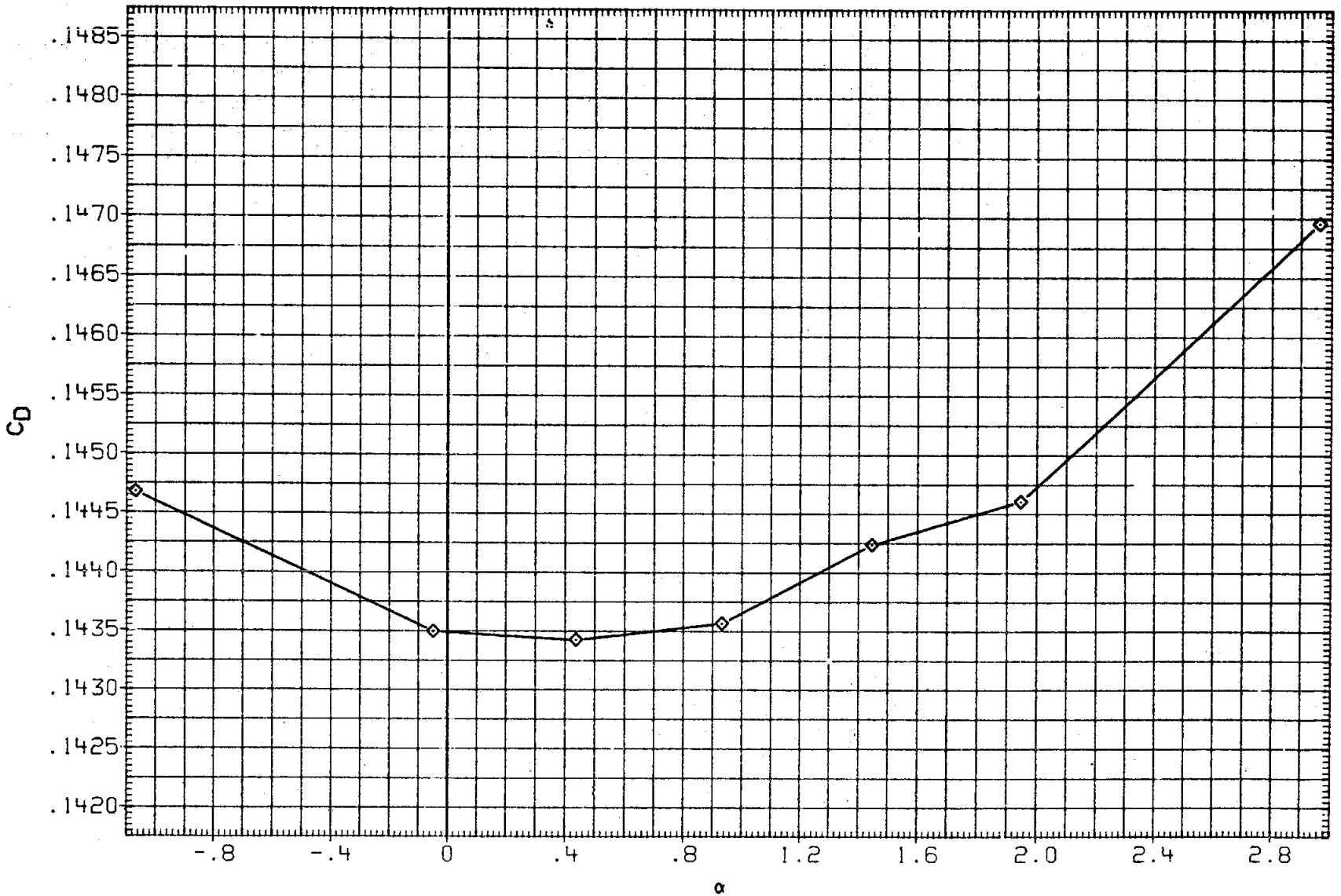

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(I)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RKN001	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	

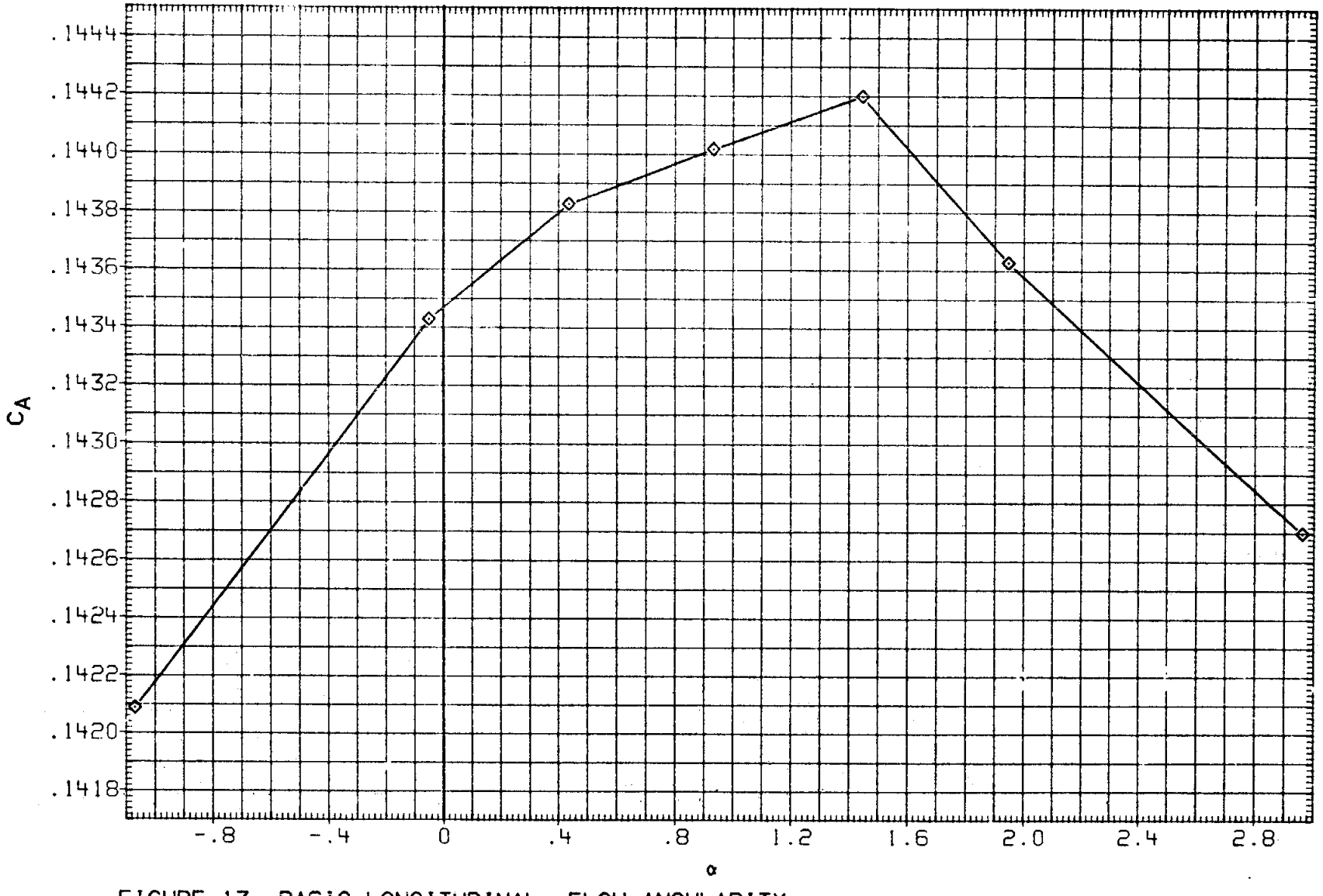

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(I)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN001	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	AMES 118-1-11 OA145A 01(INVERTED)	.000	.000	.000	.000	25.000	.000	

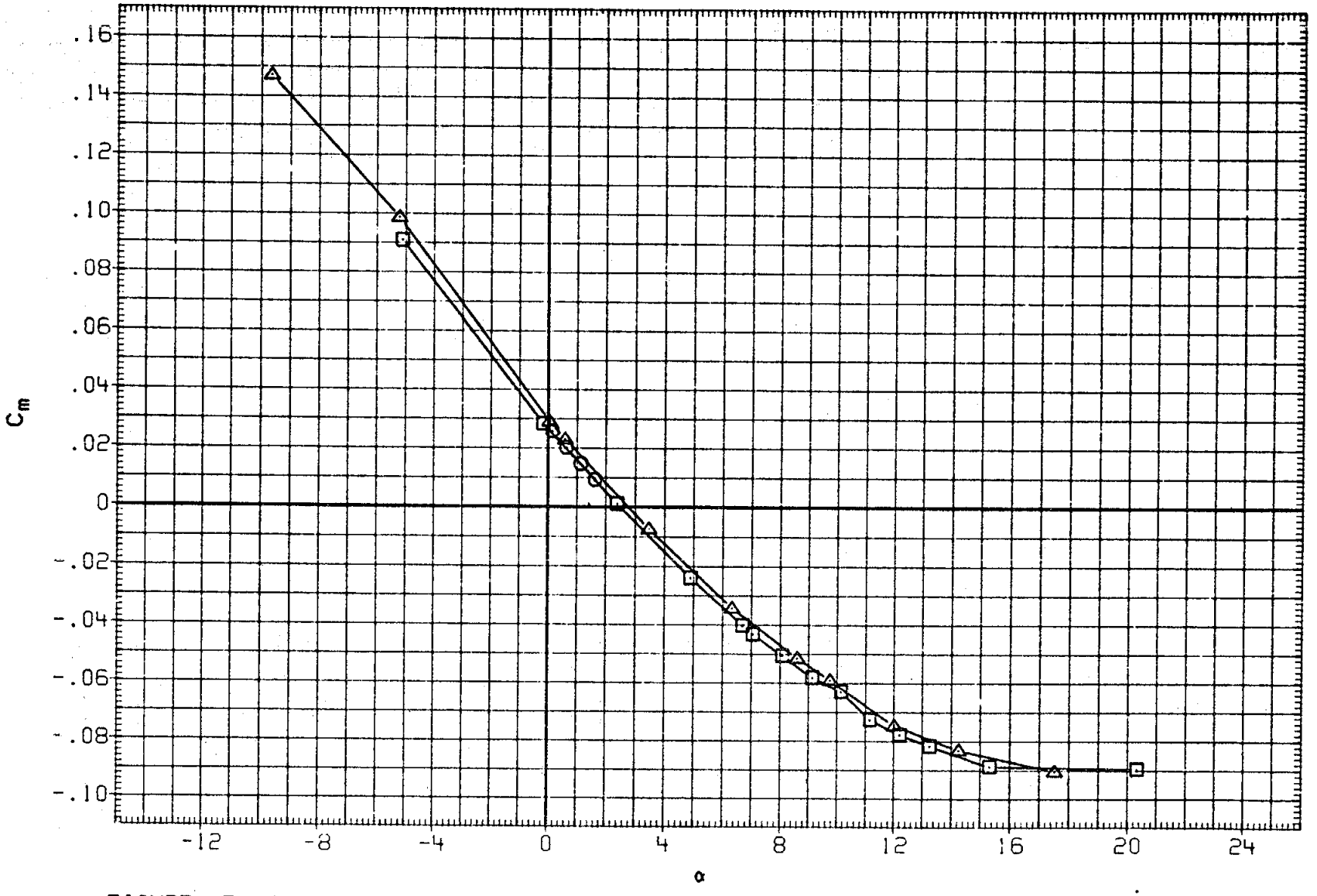

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(J)MACH = 1.29

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN001	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	AMES 118-1-11 OA145A 01(INVERTED)	.000	.000	.000	.000	25.000	.000	

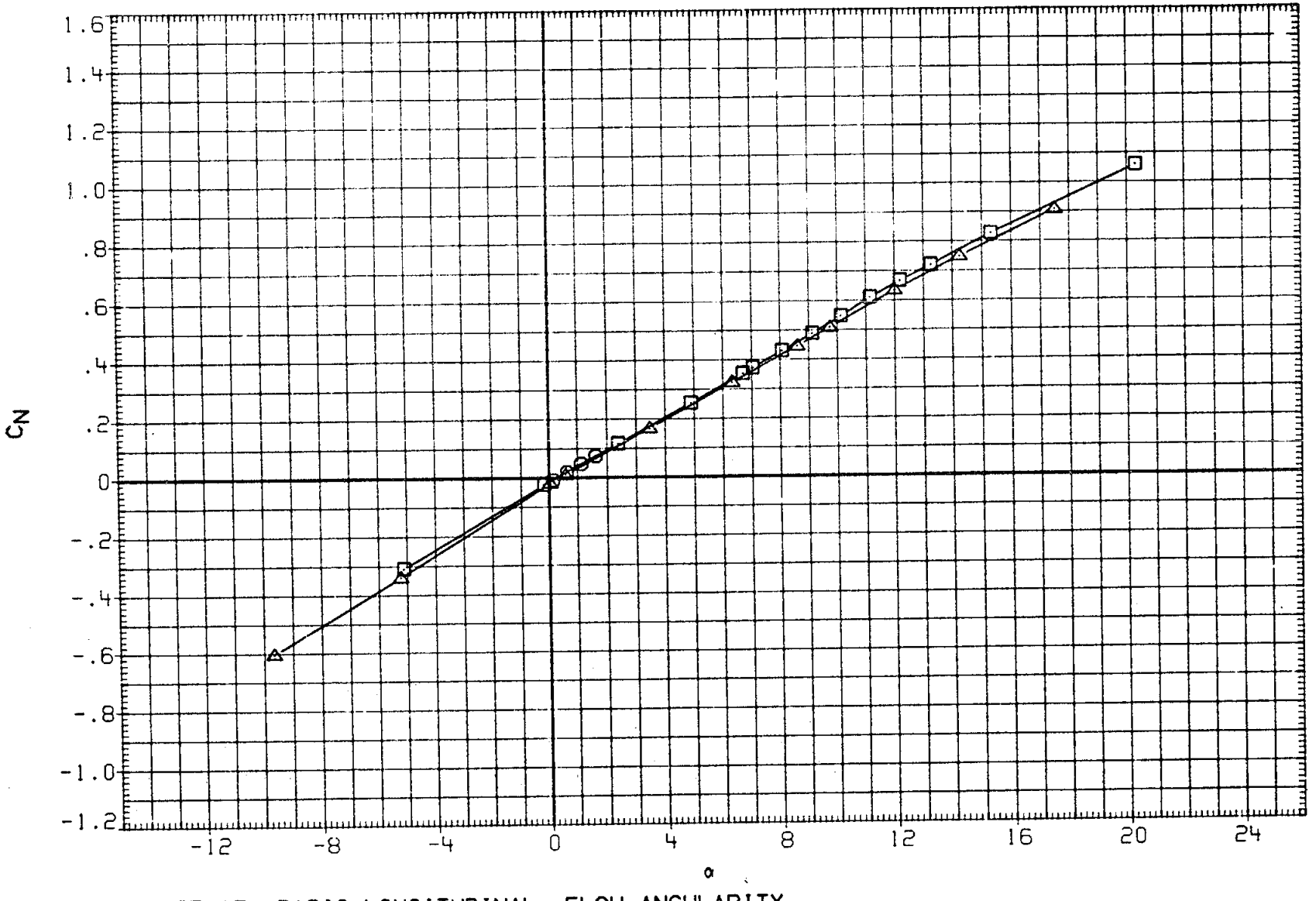

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(J)MACH = 1.29

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN001	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	AMES 118-1-11 OA145A 01(INVERTED)	.000	.000	.000	.000	25.000	.000	

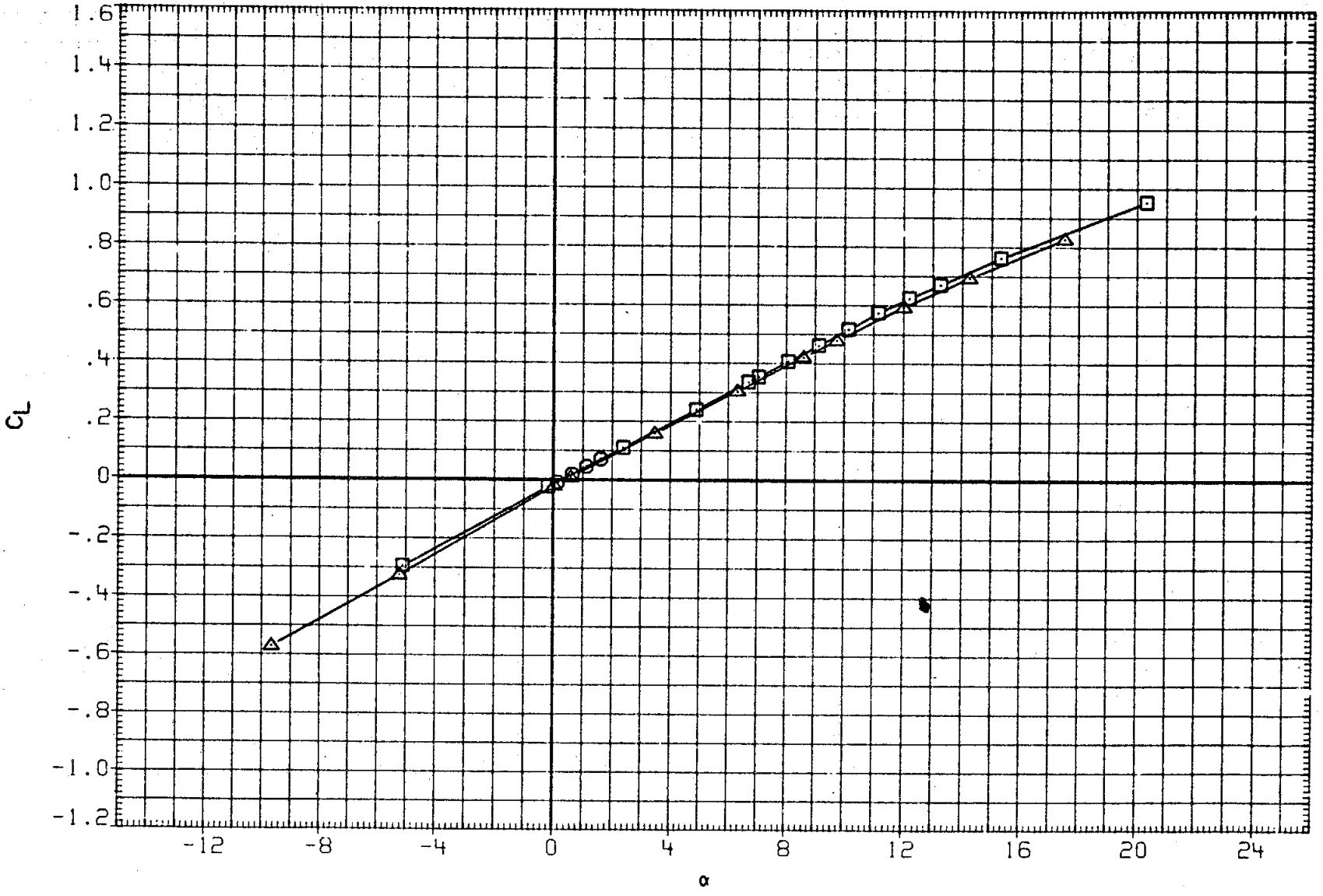

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(J)MACH = 1.29

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN001	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	AMES 118-1-11 OA145A 01(INVERTED)	.000	.000	.000	.000	25.000	.000	

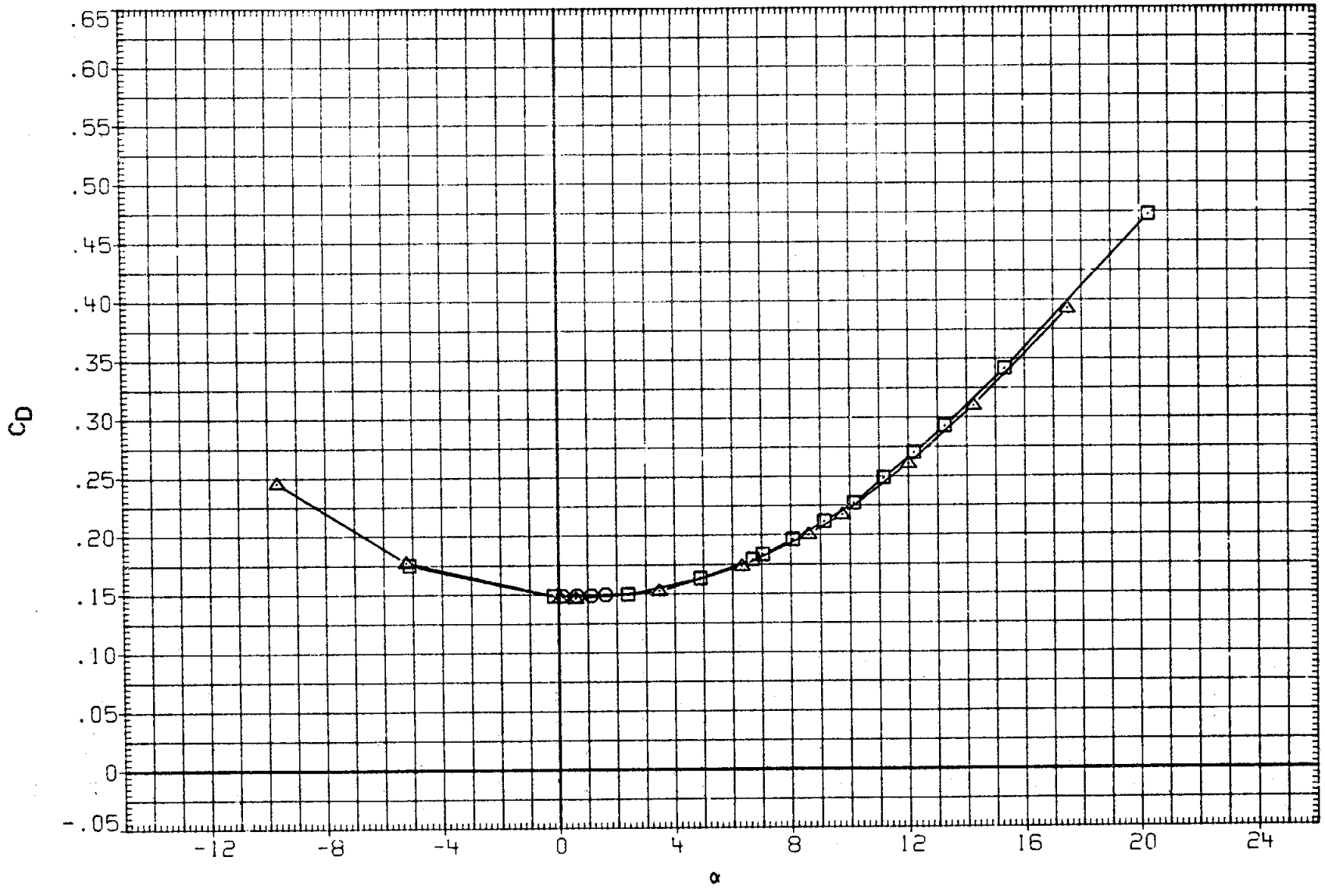

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(J)MACH = 1.29

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN001	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	AMES 118-1-11 OA145A 01 (INVERTED)	.000	.000	.000	.000	25.000	.000	

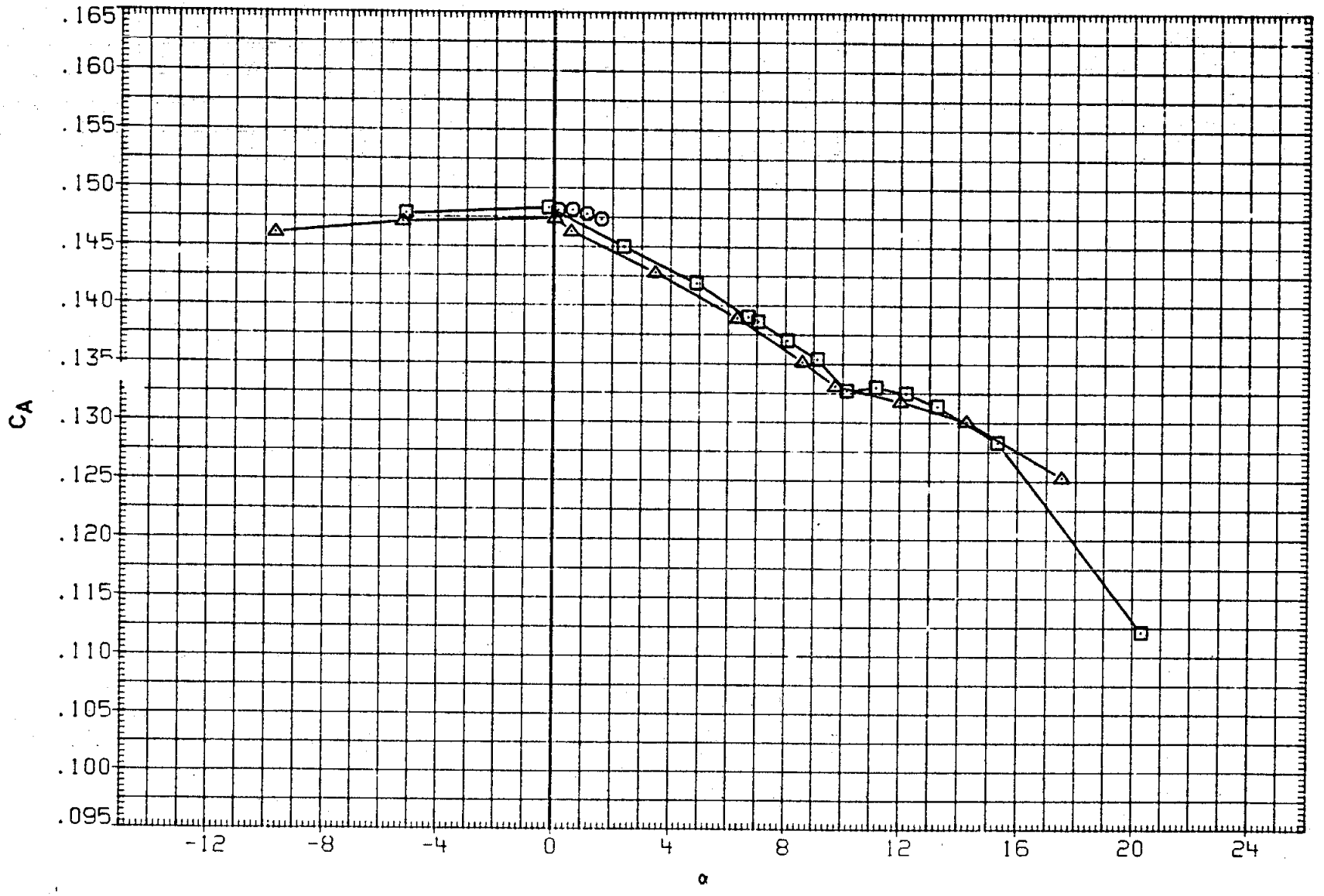

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(J)MACH = 1.29

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN001	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	

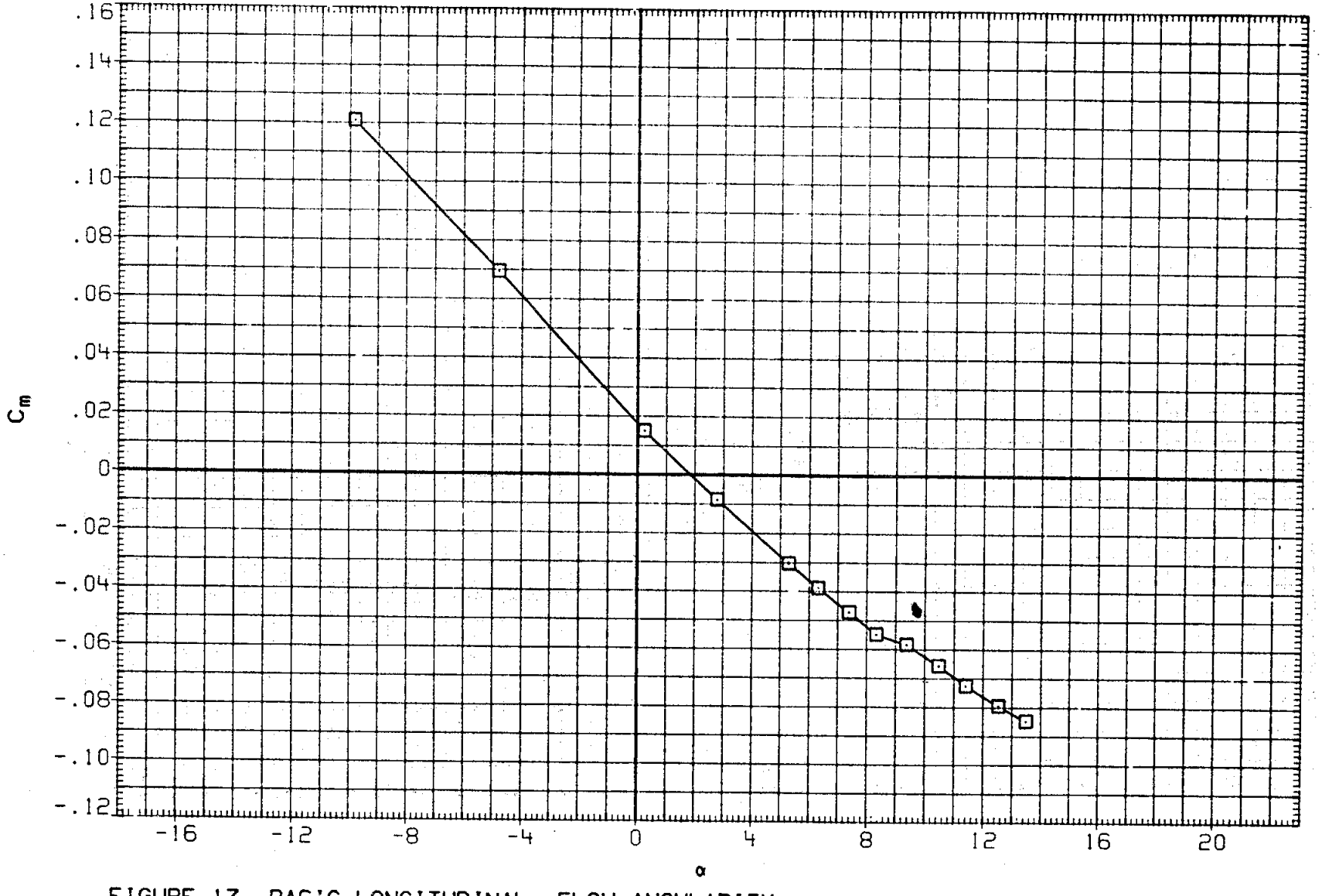

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(K)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION
RKN017	○	DATA NOT AVAILABLE
R2F012	□	AMES 118-1-11 OA145A 01
RKN001	◇	DATA NOT AVAILABLE
R2F001	△	DATA NOT AVAILABLE

BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
.000	.000	.000	.000	25.000	.000	.000
.000	.000	.000	.000	25.000	.000	
.000	.000	.000	.000	25.000	.000	180.000
.000	.000	.000	.000	25.000	.000	

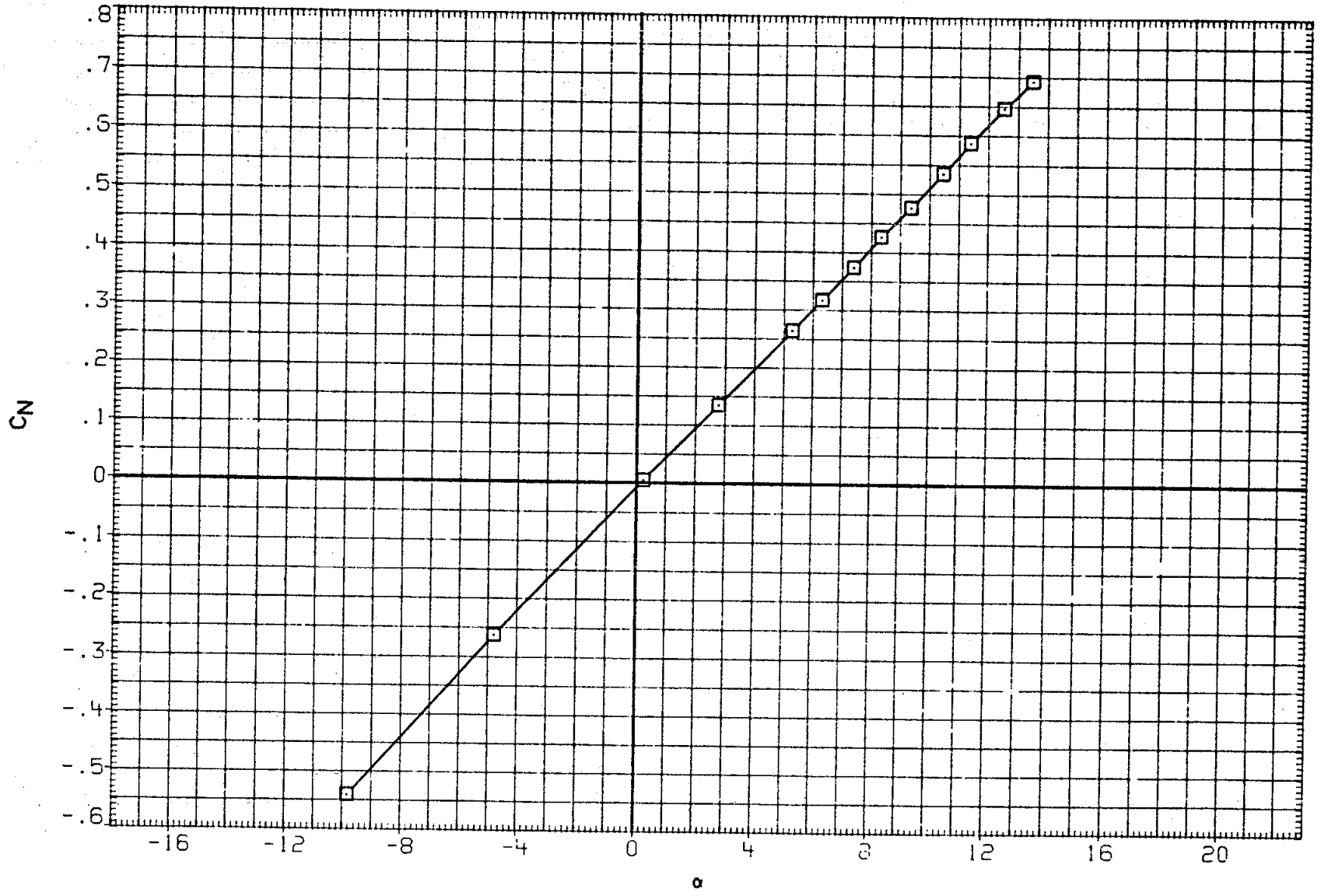

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(K)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN001	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	

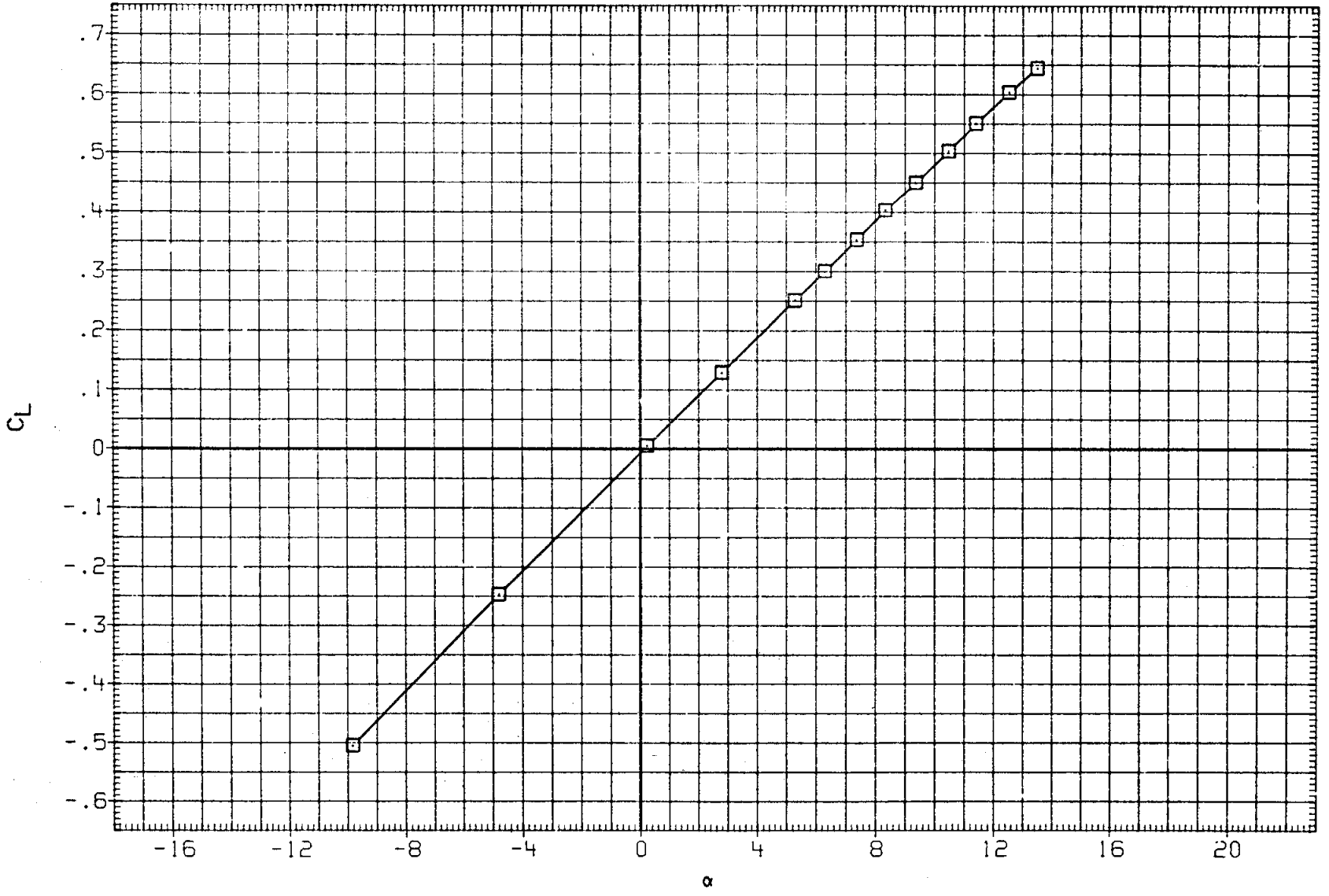

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(K)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN001	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	

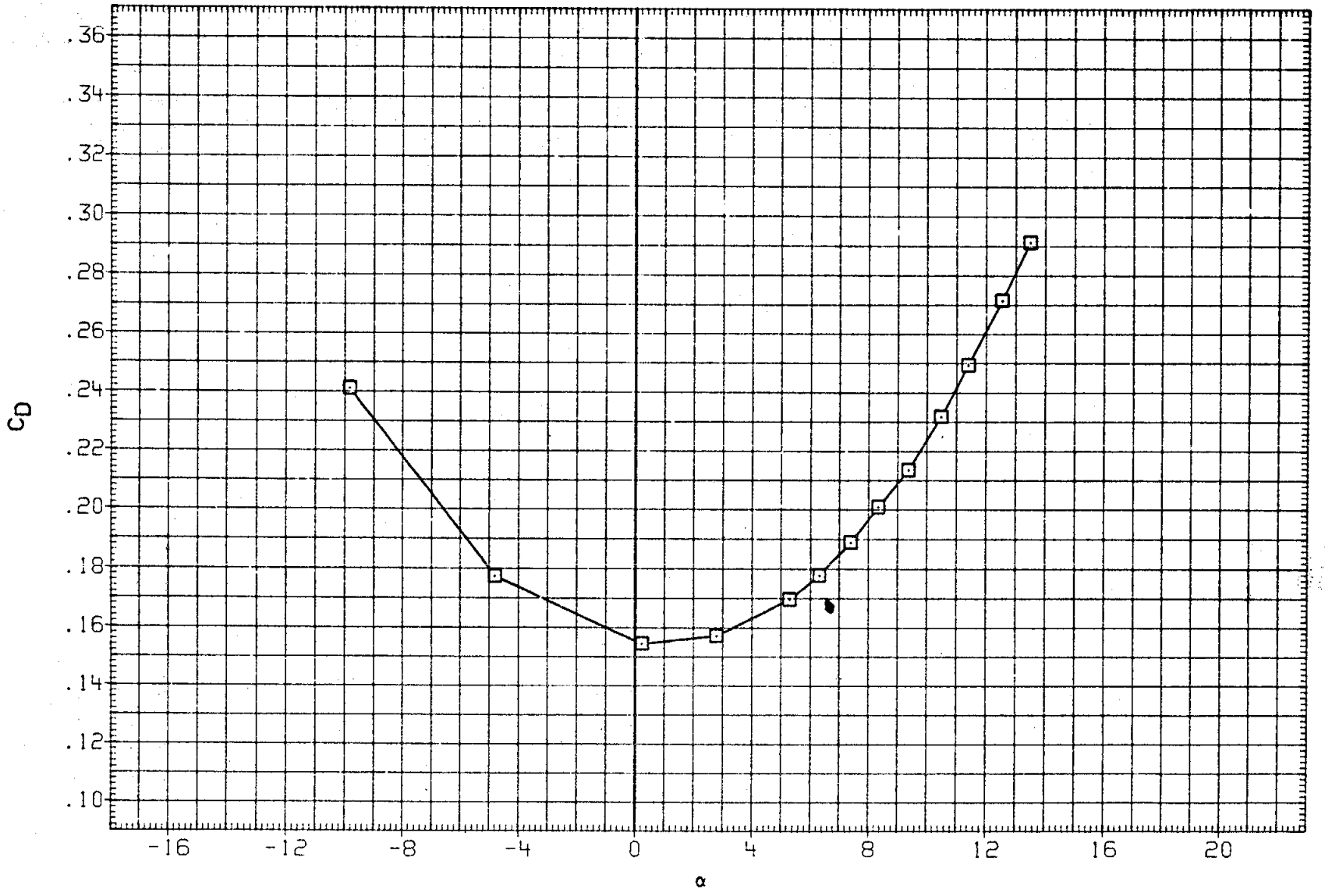

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(K)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN017	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN001	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	180.000
R2F001	△	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	

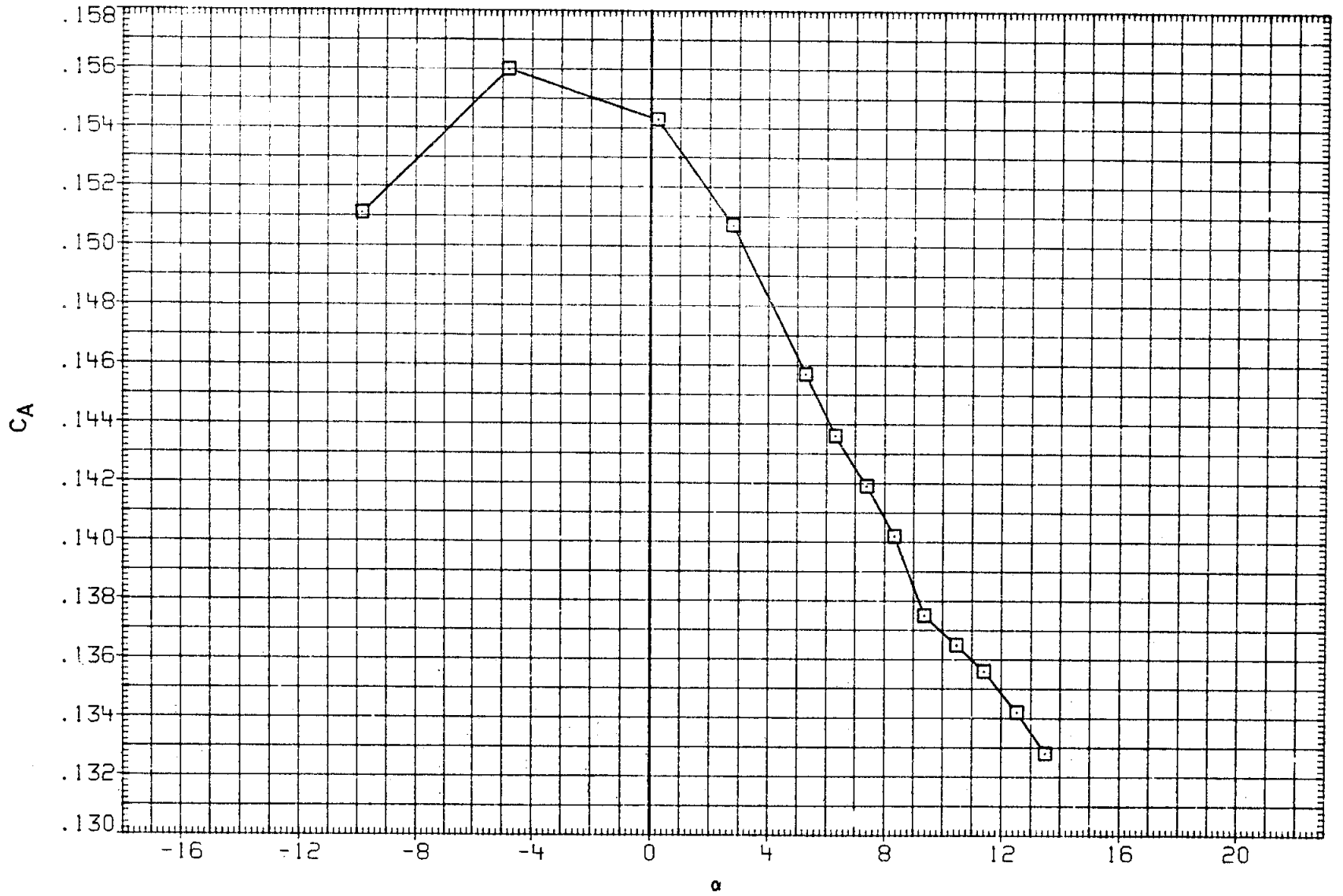

FIGURE 13. BASIC LONGITUDINAL, FLOW ANGULARITY

(K)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN015	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	-5.000	.000	.000	25.000	.000	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN021	◺	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	5.000	.000	.000	25.000	.000	.000
R2F026	◺	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

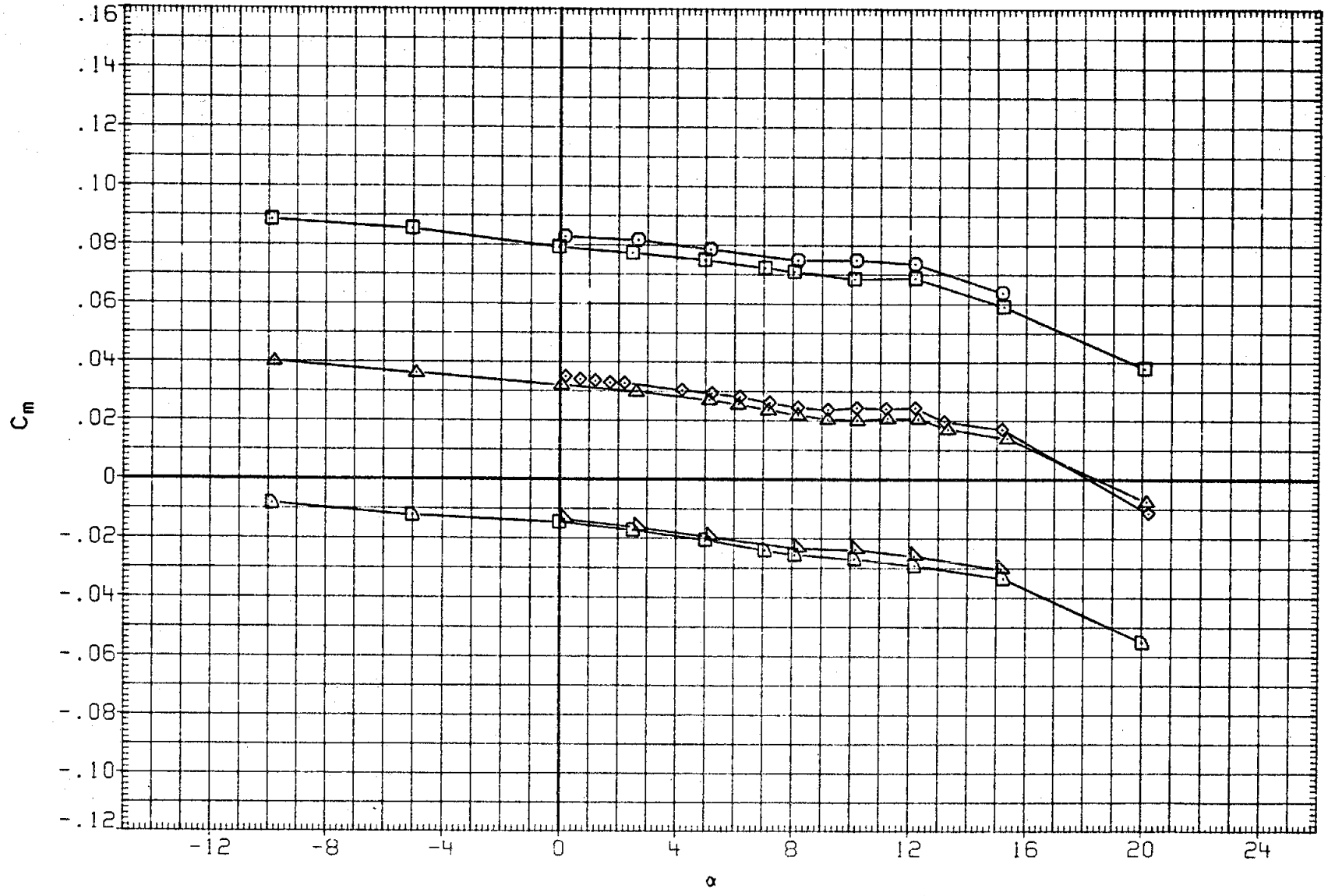

FIGURE 14. BASIC LONGITUDINAL, ELEVON EFFECTS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN015	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	-5.000	.000	.000	25.000	.000	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN021	◁	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	5.000	.000	.000	25.000	.000	.000
R2F026	▷	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

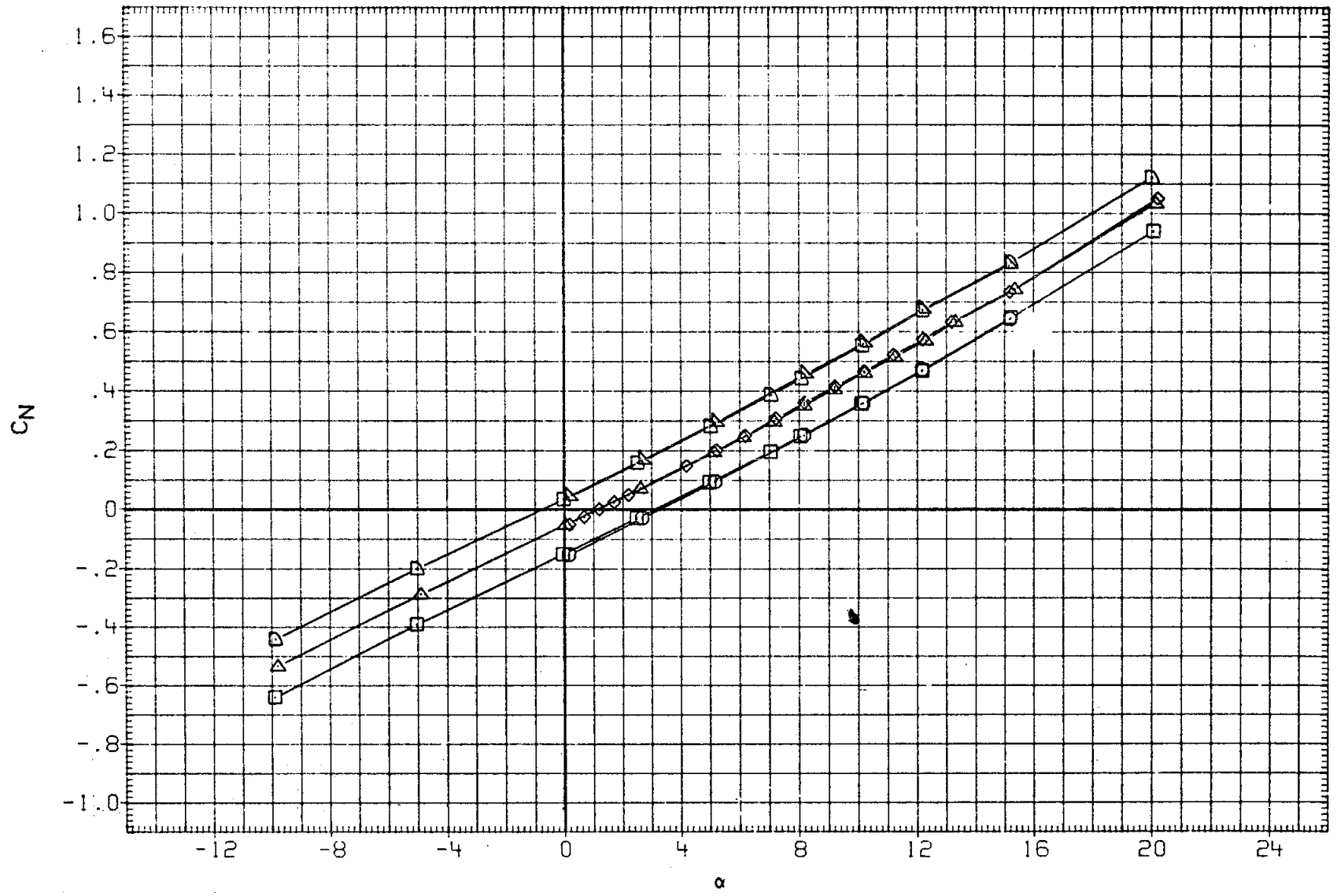

FIGURE 14. BASIC LONGITUDINAL, ELEVON EFFECTS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN015	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	-5.000	.000	.000	25.000	.000	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN021	◺	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	5.000	.000	.000	25.000	.000	.000
R2F026	◻	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

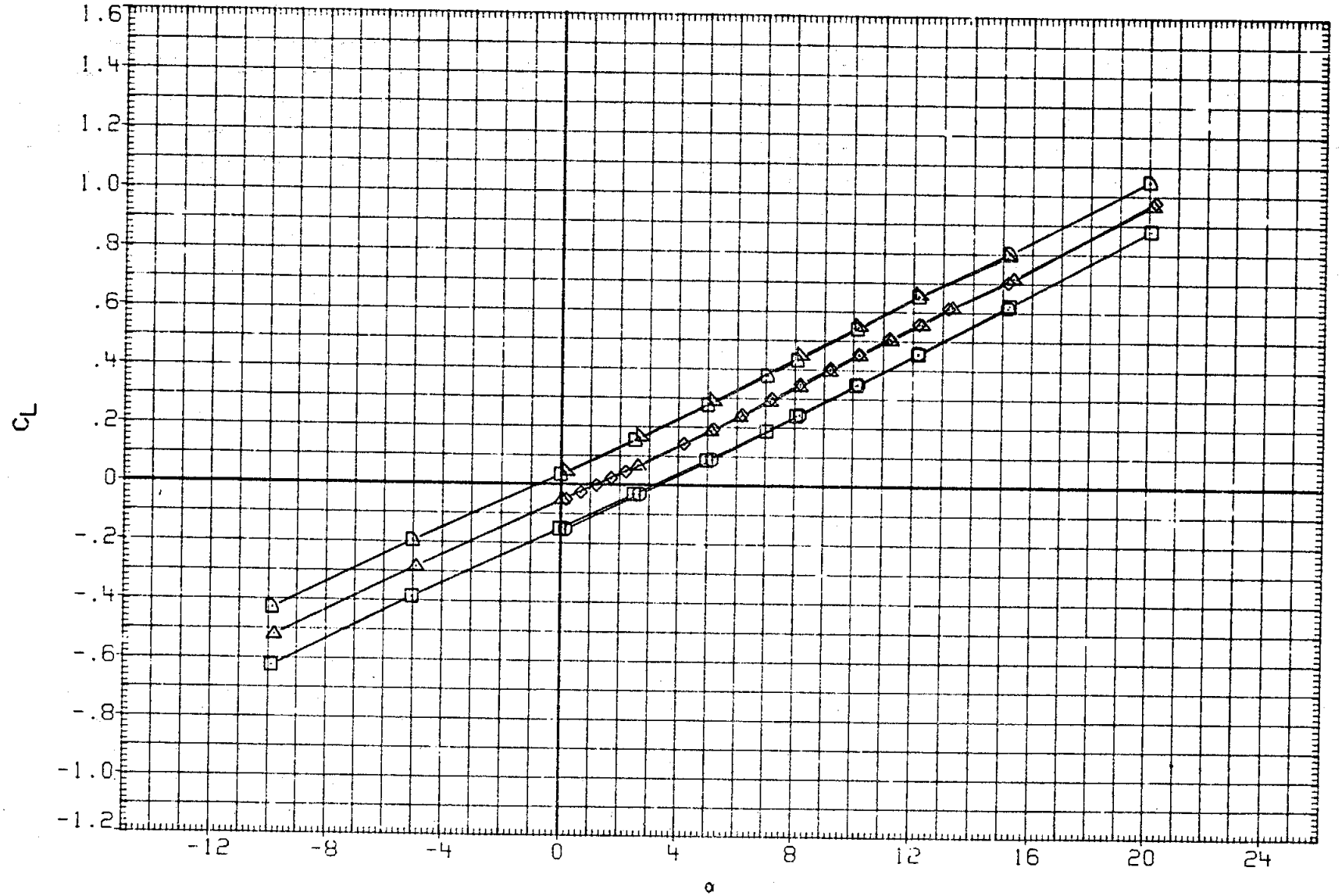

FIGURE 14. BASIC LONGITUDINAL, ELEVON EFFECTS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN015	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	-5.000	.000	.000	25.000	.000	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN021	◺	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	5.000	.000	.000	25.000	.000	.000
R2F026	◗	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

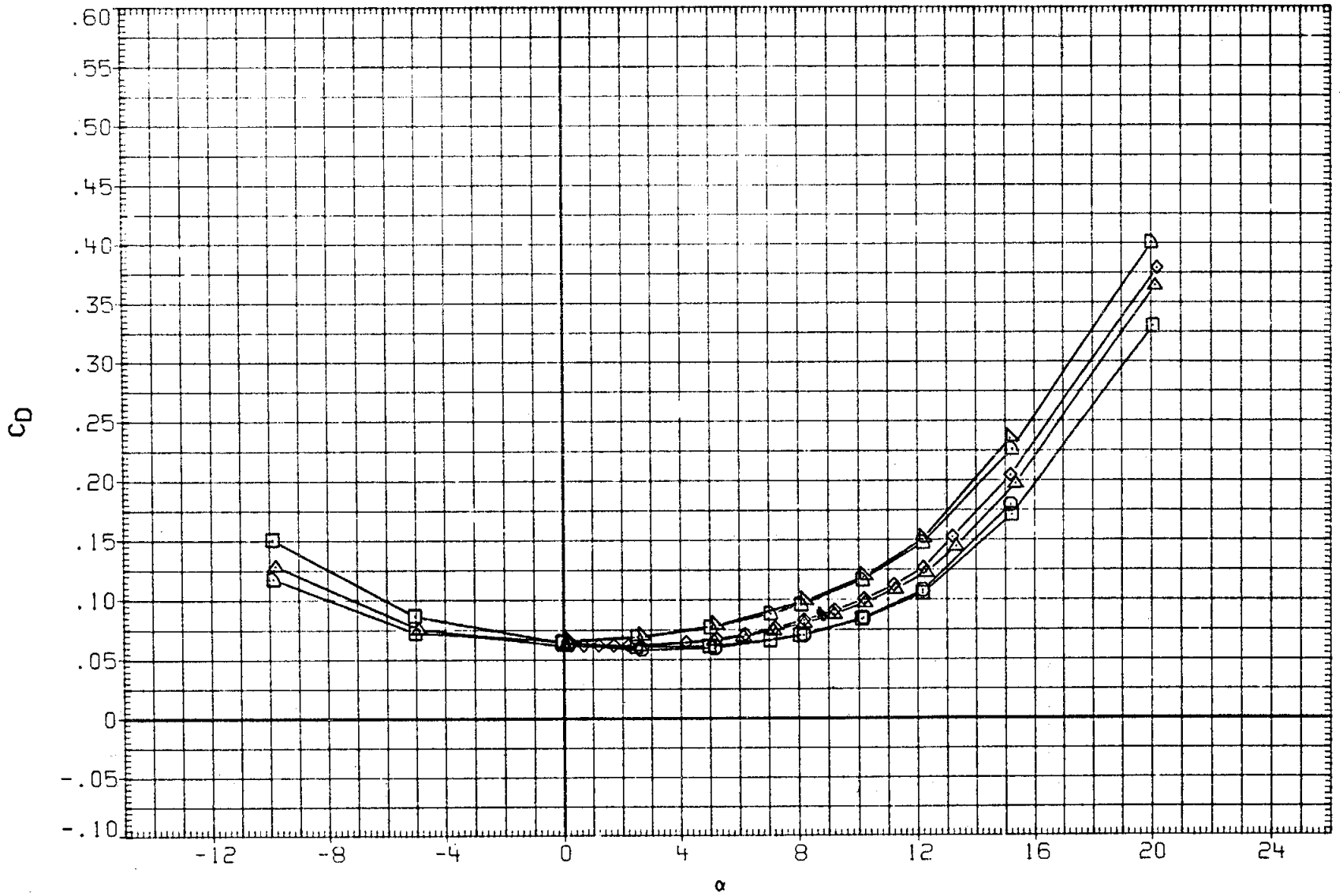

FIGURE 14. BASIC LONGITUDINAL, ELEVON EFFECTS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN015	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	-5.000	.000	.000	25.000	.000	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN021	◺	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	5.000	.000	.000	25.000	.000	.000
R2F026	D	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

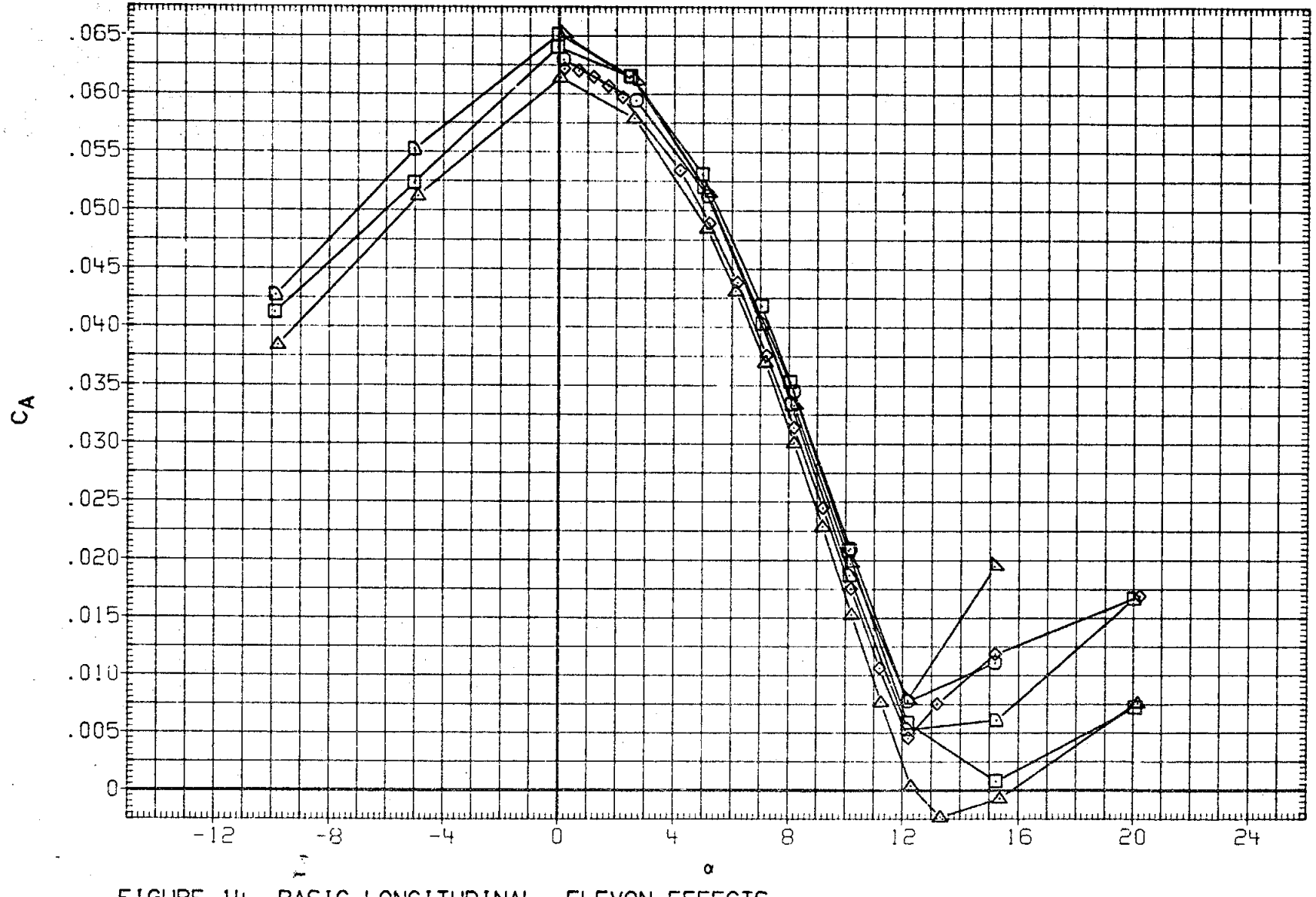

FIGURE 14. BASIC LONGITUDINAL, ELEVON EFFECTS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILPON	BDFLAP	SPDBRK	RUDDER	PHI
RKN015	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	-5.000	.000	.000	25.000	.000	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN021	▷	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	5.000	.000	.000	25.000	.000	.000
R2F026	D	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

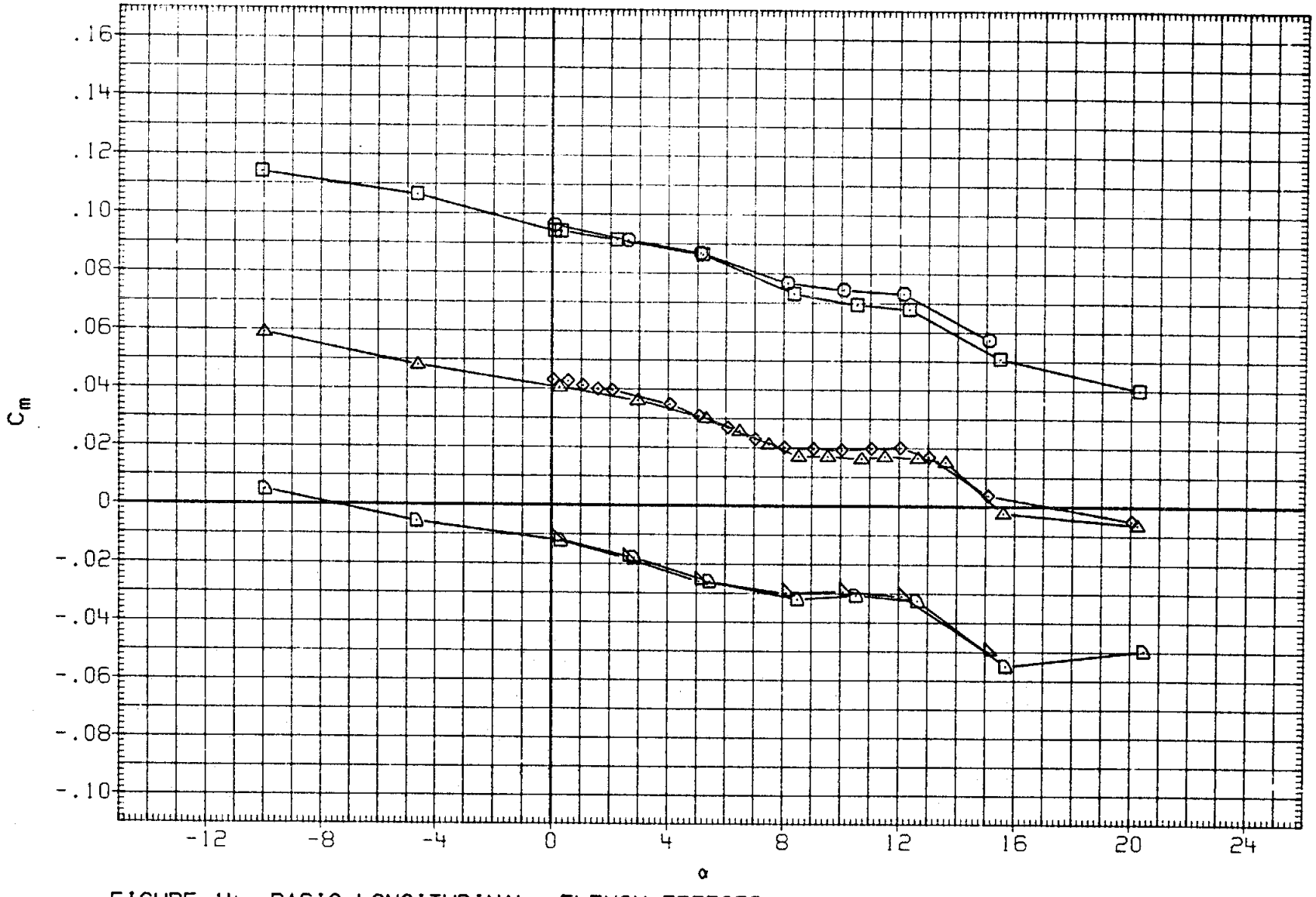

FIGURE 14. BASIC LONGITUDINAL, ELEVON EFFECTS

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN015	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	-5.000	.000	.000	25.000	.000	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN021	◺	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	5.000	.000	.000	25.000	.000	.000
R2F026	D	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

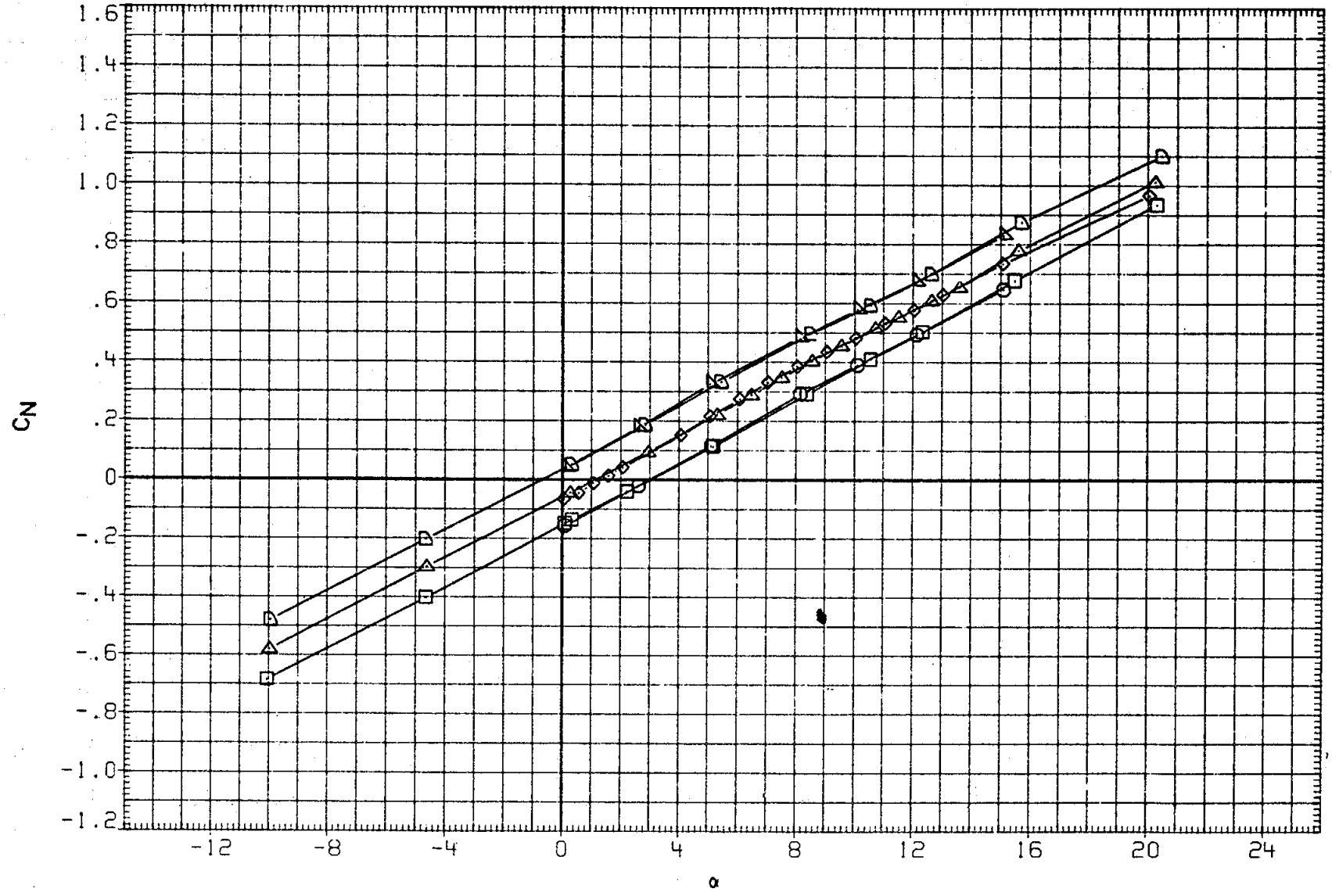

FIGURE 14. BASIC LONGITUDINAL, ELEVON EFFECTS

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN015	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	-5.000	.000	.000	25.000	.000	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN021	◺	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	5.000	.000	.000	25.000	.000	.000
R2F026	◻	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

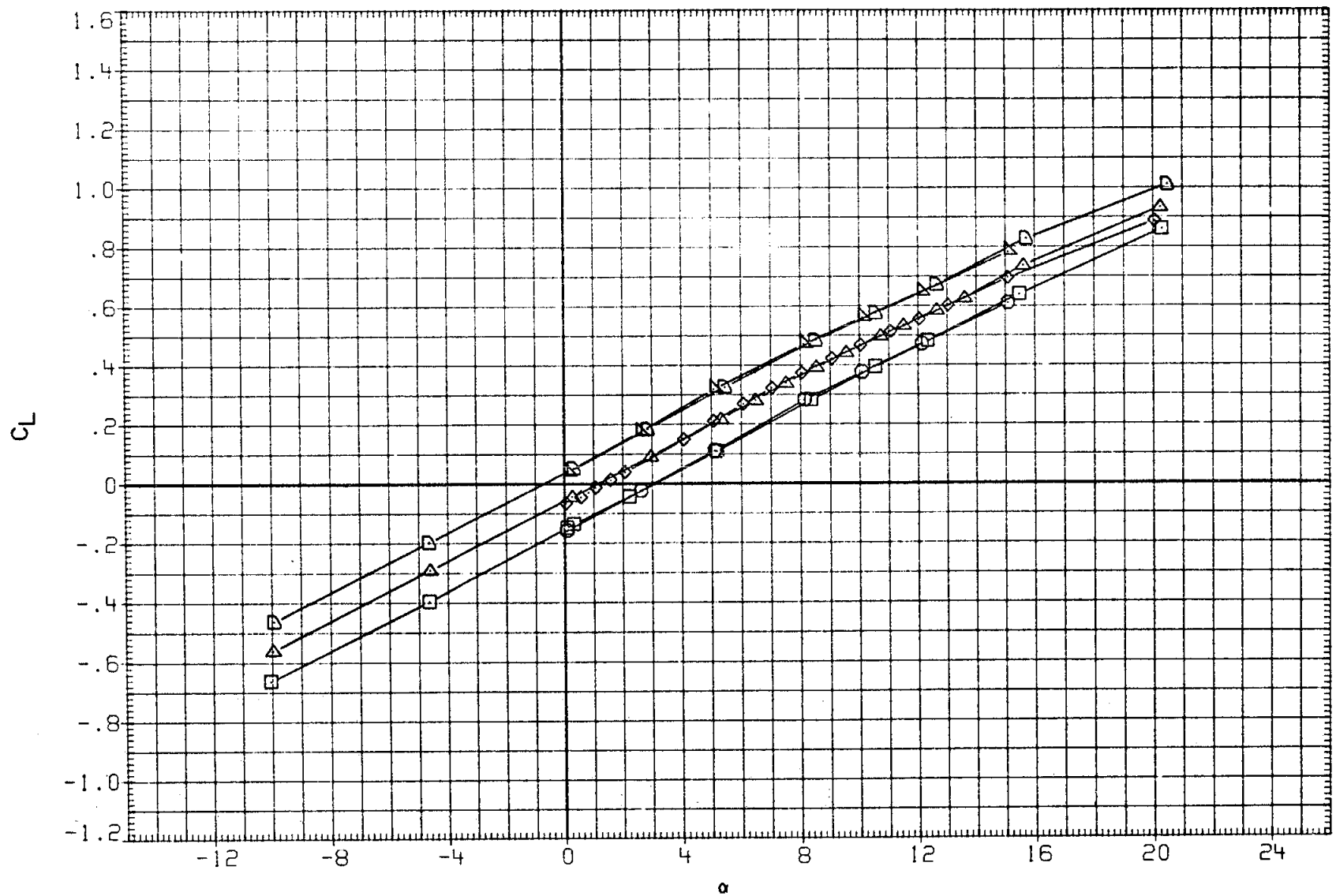

FIGURE 14. BASIC LONGITUDINAL, ELEVON EFFECTS

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN015	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	-5.000	.000	.000	25.000	.000	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN021	◁	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	5.000	.000	.000	25.000	.000	.000
R2F026	D	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

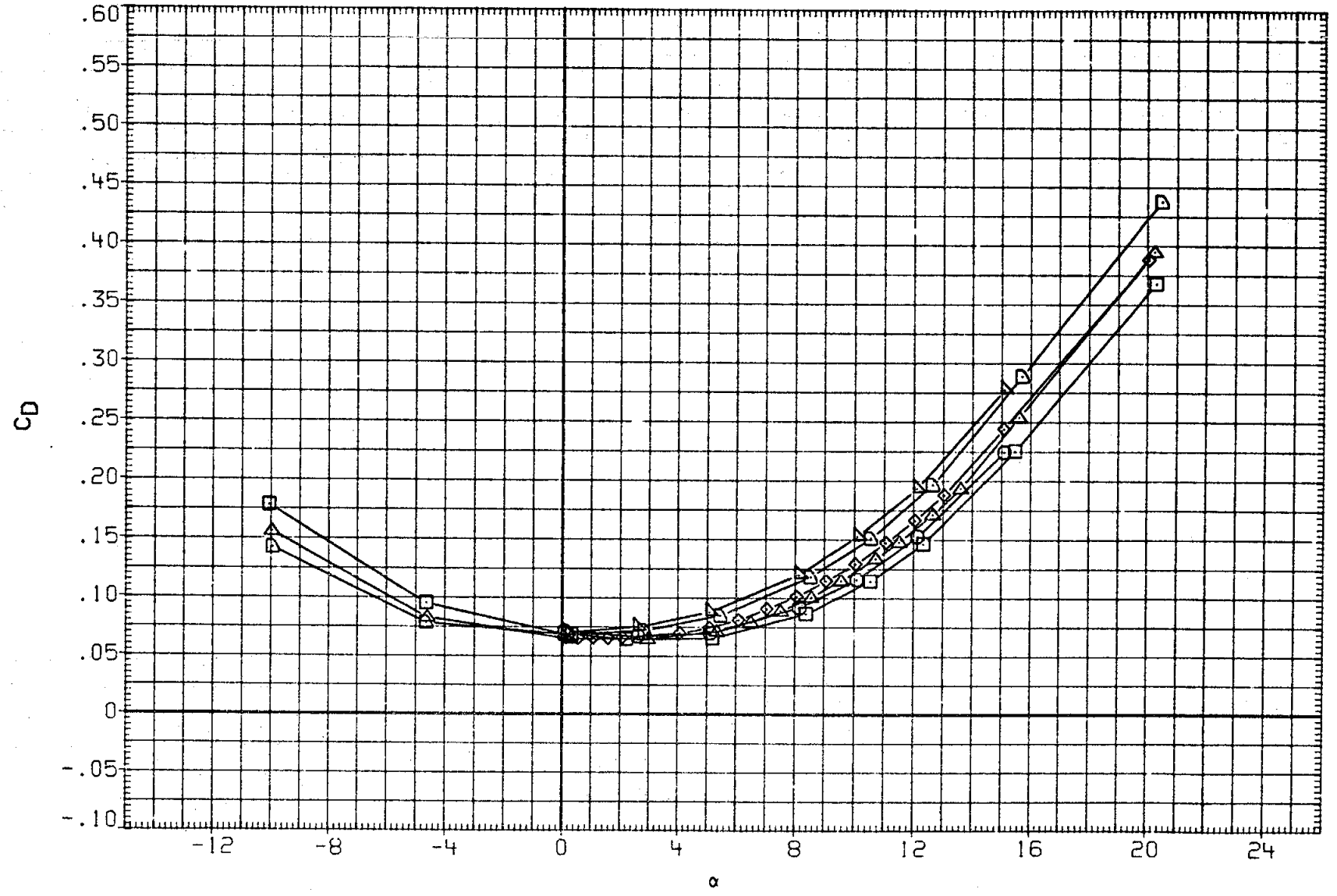

FIGURE 14. BASIC LONGITUDINAL, ELEVON EFFECTS

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN015	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	-5.000	.000	.000	25.000	.000	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN021	◺	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	5.000	.000	.000	25.000	.000	.000
R2F026	◗	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

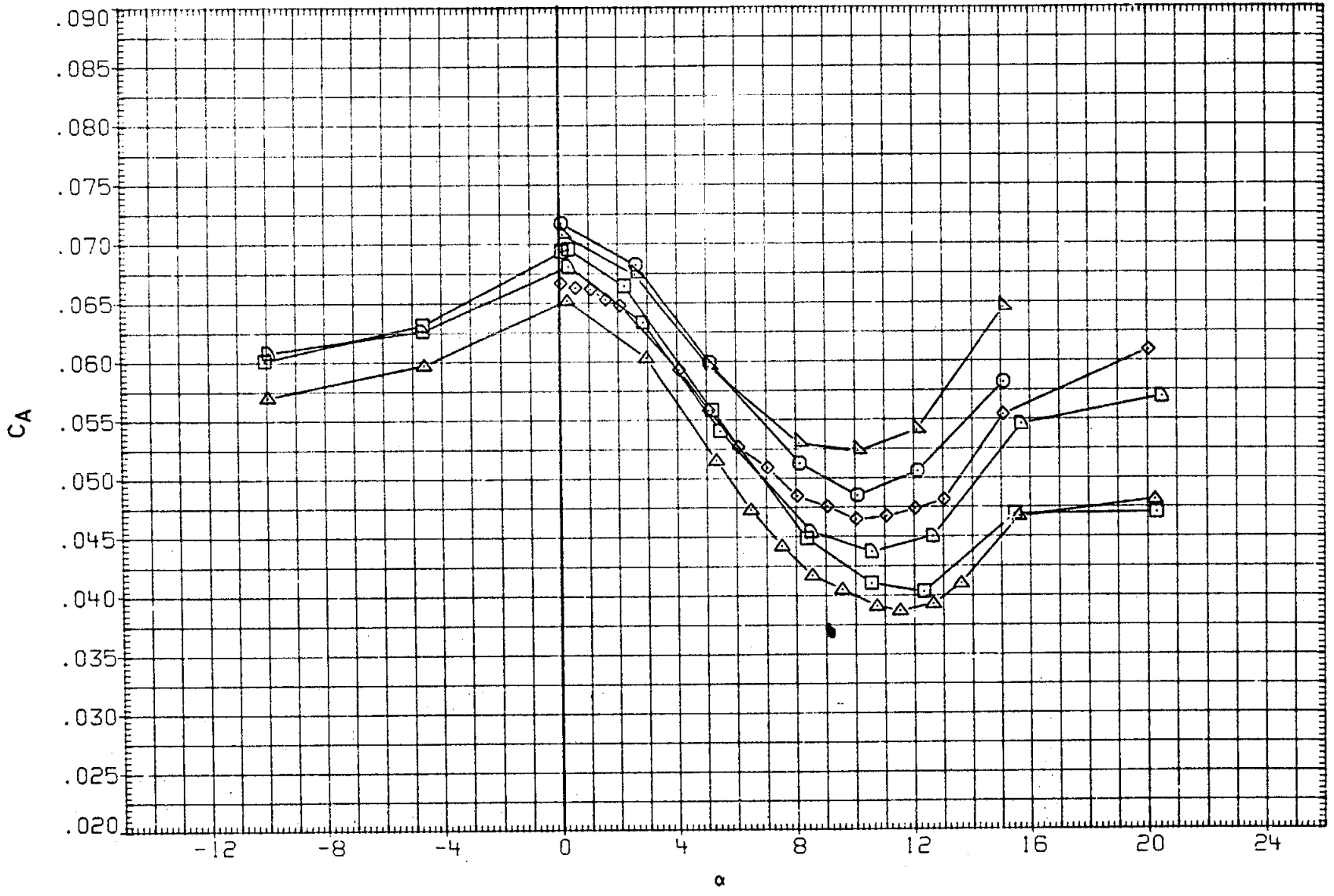

FIGURE 14. BASIC LONGITUDINAL, ELEVON EFFECTS

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN015	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	-5.000	.000	.000	25.000	.000	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN021	◺	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	5.000	.000	.000	25.000	.000	.000
R2F026	D	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

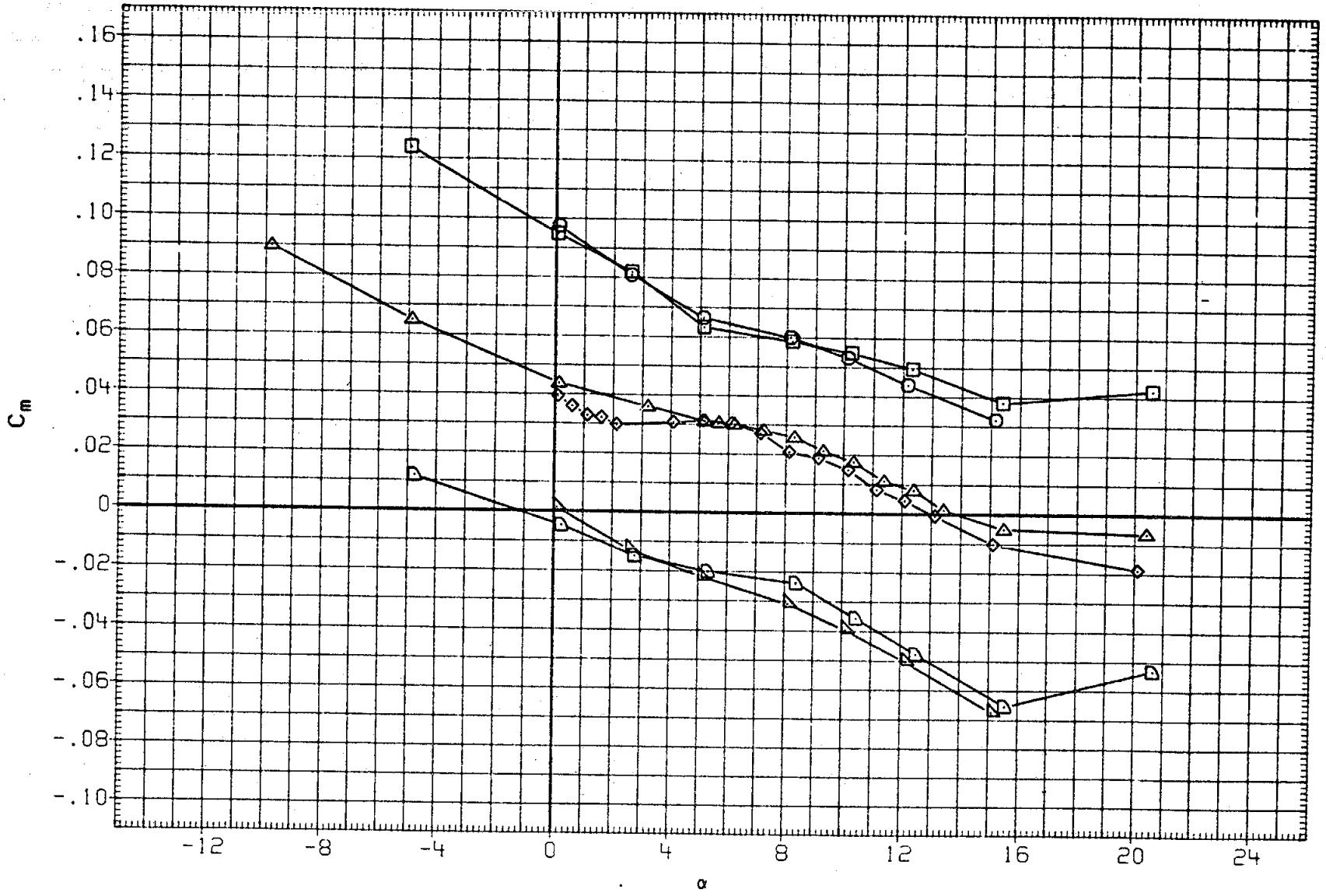

FIGURE 14. BASIC LONGITUDINAL, ELEVON EFFECTS

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN015	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	-5.000	.000	.000	25.000	.000	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN021	◁	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	5.000	.000	.000	25.000	.000	.000
R2F026	▷	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

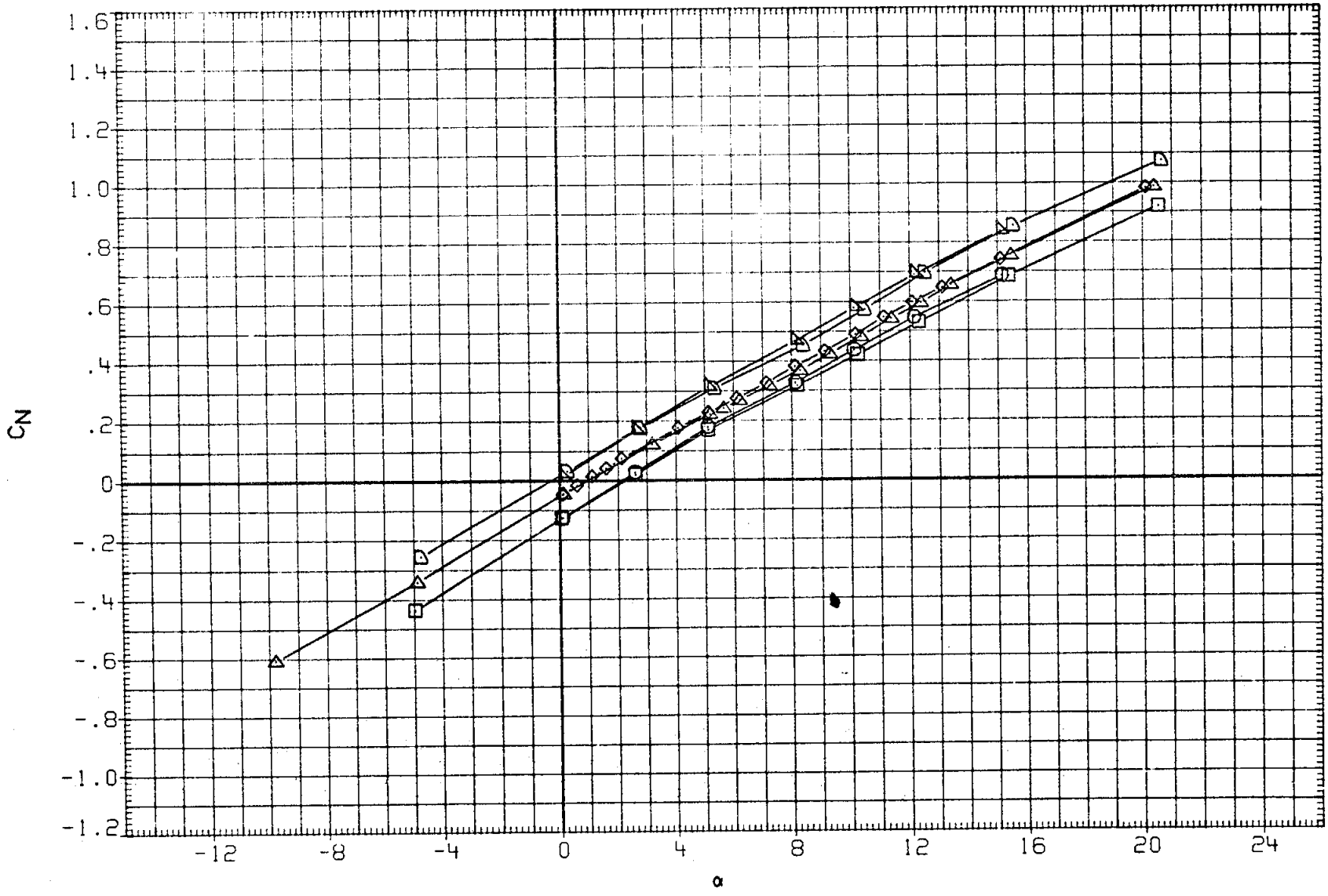

FIGURE 14. BASIC LONGITUDINAL, ELEVON EFFECTS

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN015	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	-5.000	.000	.000	25.000	.000	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN021	◺	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	5.000	.000	.000	25.000	.000	.000
R2F026	D	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

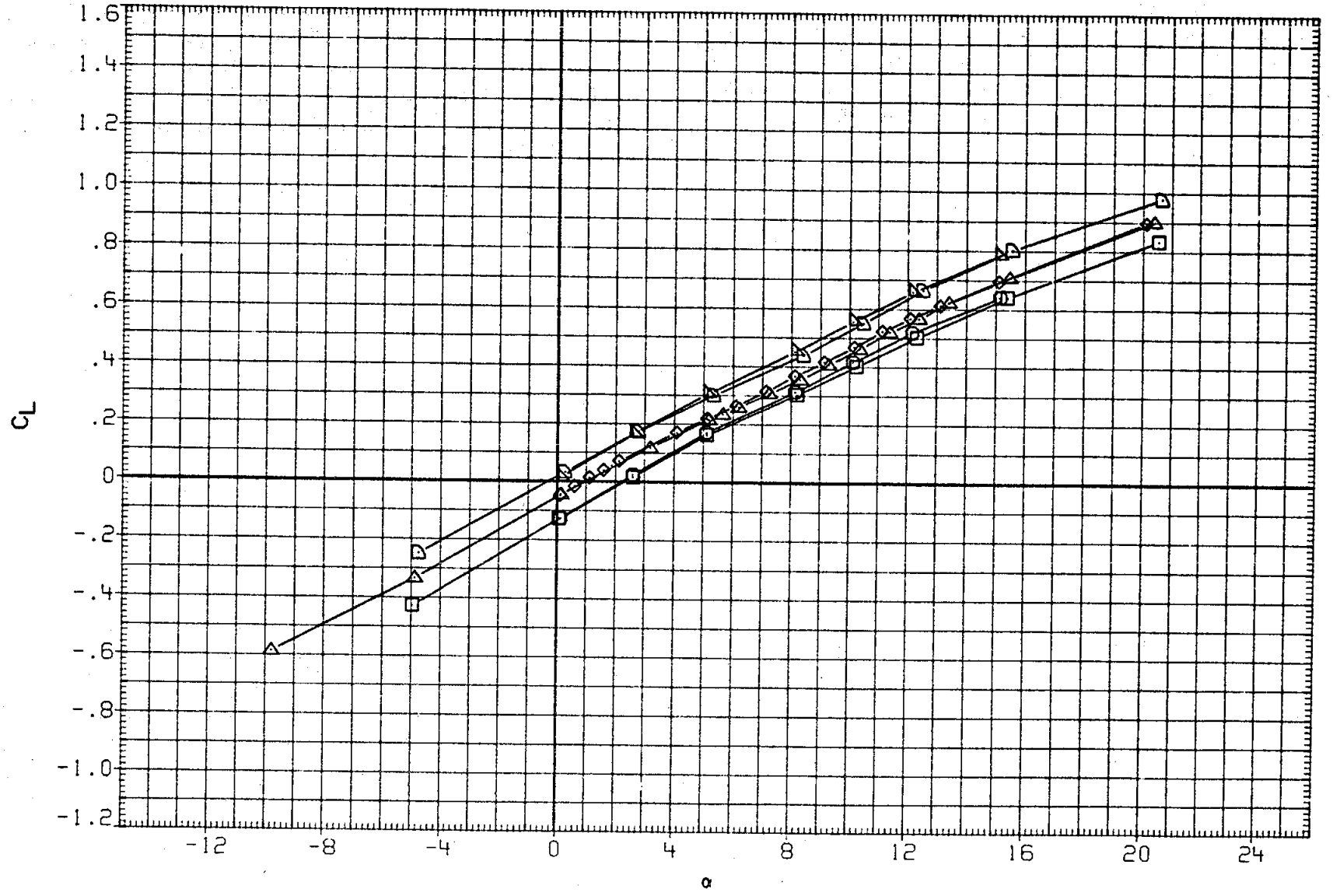

FIGURE 14. BASIC LONGITUDINAL, ELEVON EFFECTS

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN015	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	-5.000	.000	.000	25.000	.000	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN021	◺	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	5.000	.000	.000	25.000	.000	.000
R2F026	D	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

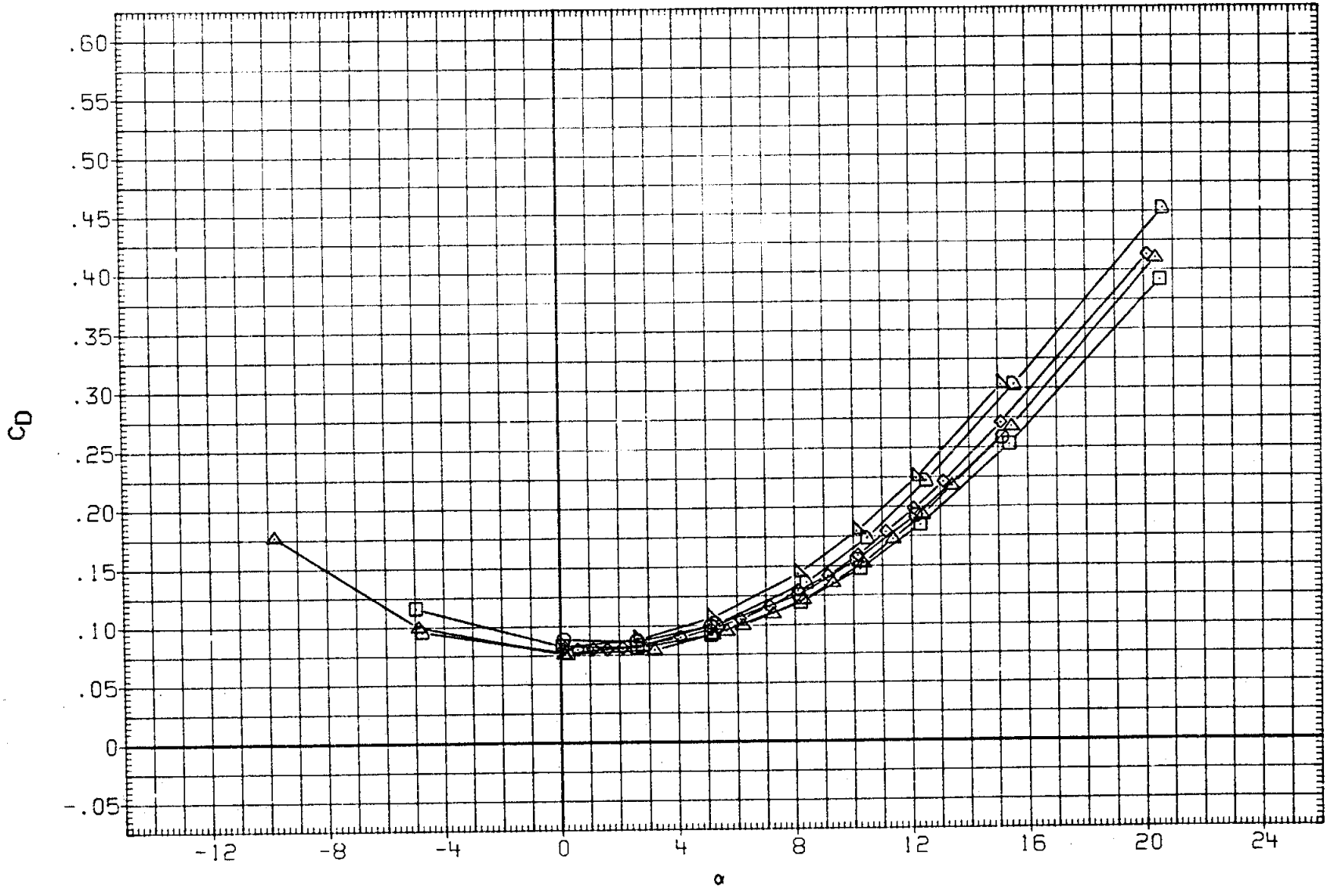

FIGURE 14. BASIC LONGITUDINAL, ELEVON EFFECTS

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN015	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	-5.000	.000	.000	25.000	.000	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN021	◺	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	5.000	.000	.000	25.000	.000	.000
R2F026	◻	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

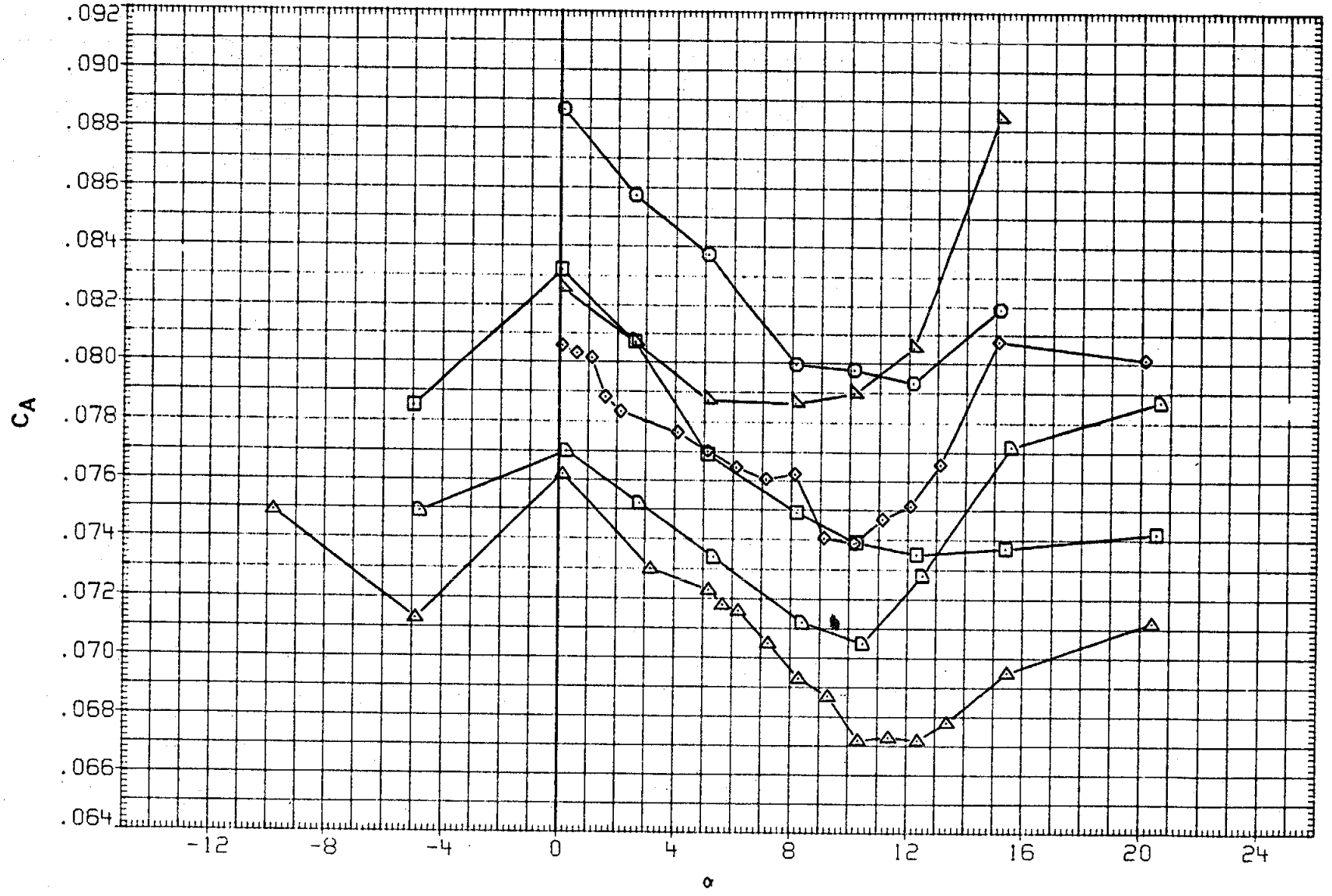

FIGURE 14. BASIC LONGITUDINAL, ELEVON EFFECTS

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN015	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	-5.000	.000	.000	25.000	.000	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN021	◺	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	5.000	.000	.000	25.000	.000	.000
R2F026	D	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

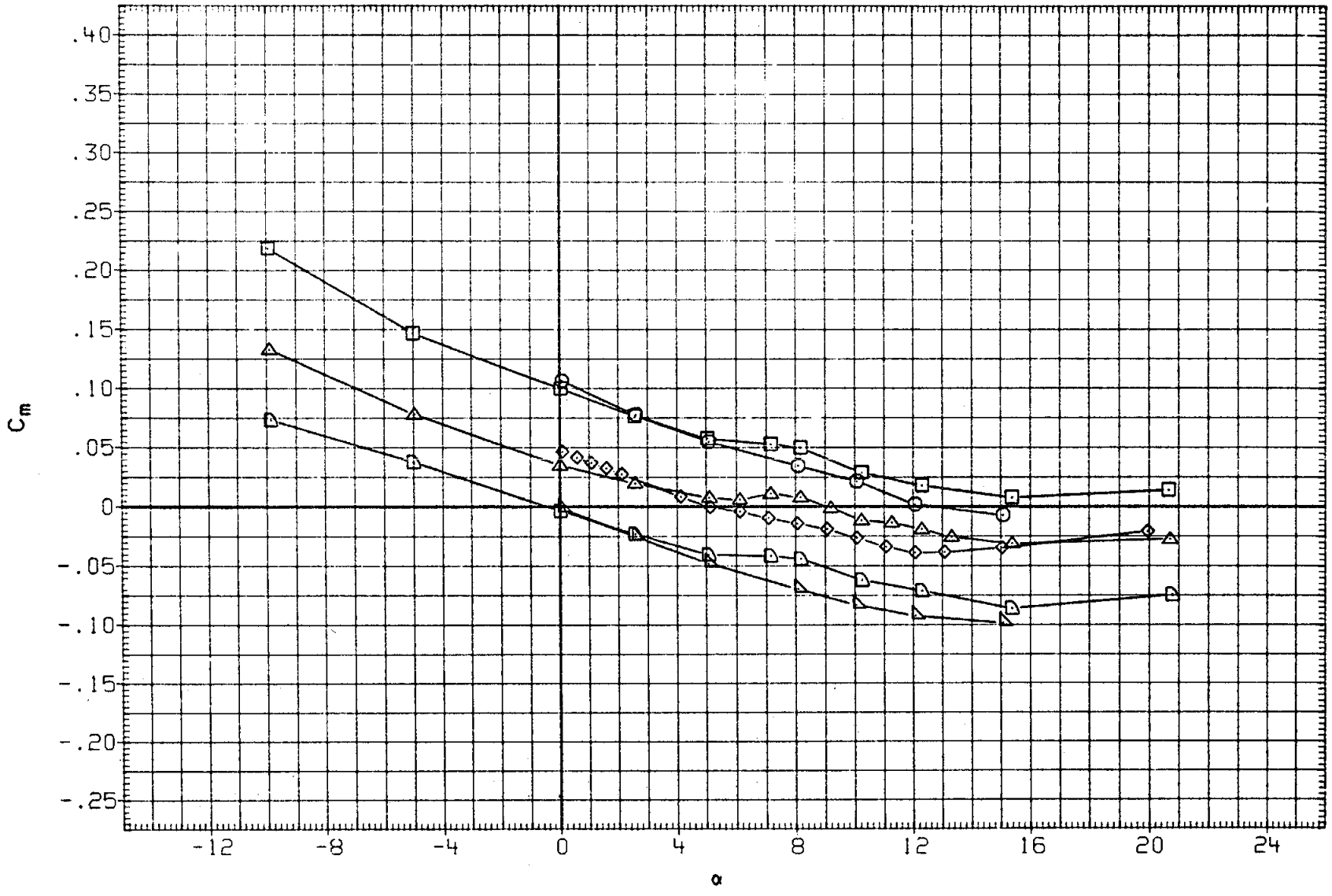

FIGURE 14. BASIC LONGITUDINAL, ELEVON EFFECTS

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN015	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	-5.000	.000	.000	25.000	.000	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN021	◺	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	5.000	.000	.000	25.000	.000	.000
R2F026	D	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

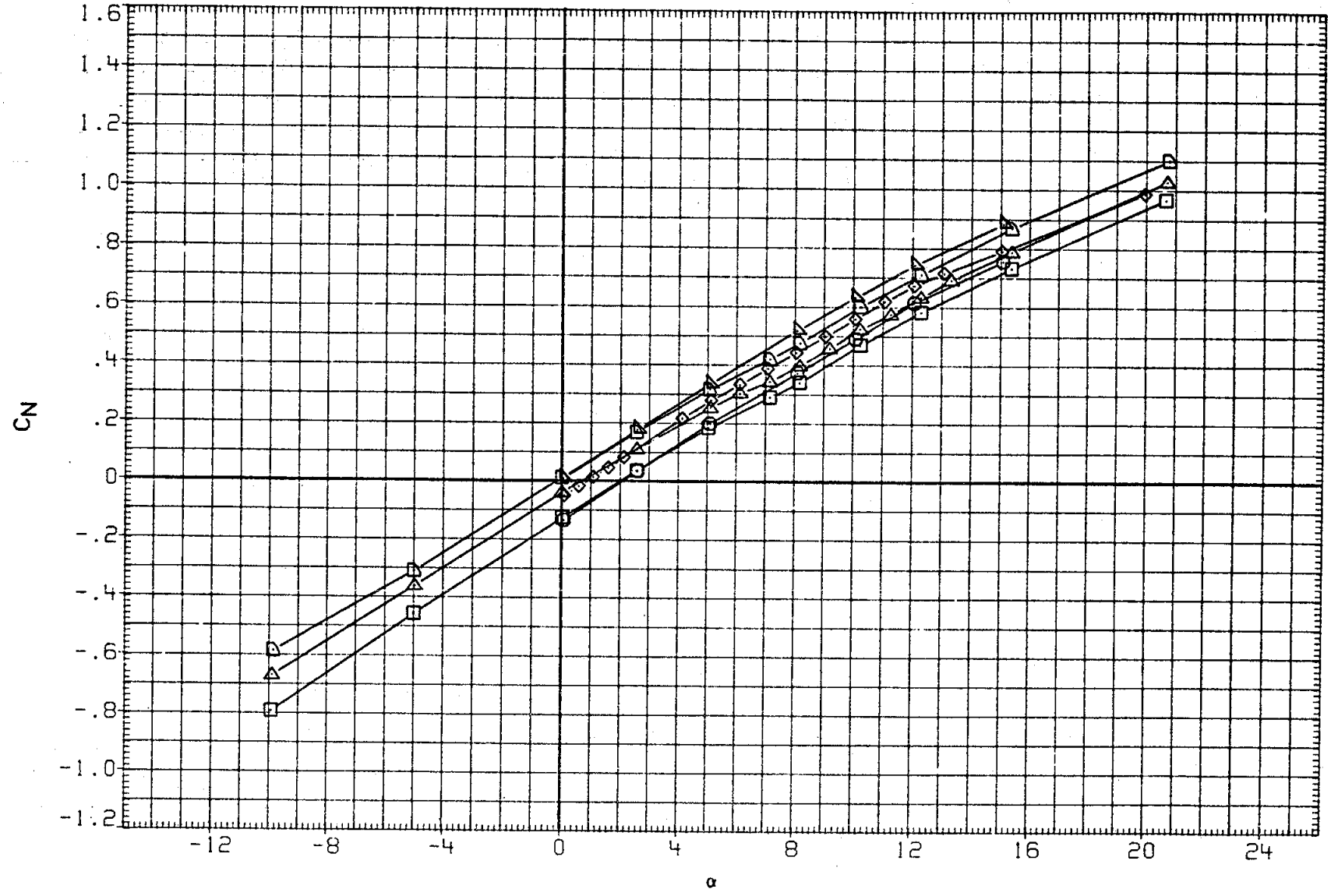

FIGURE 14. BASIC LONGITUDINAL, ELEVON EFFECTS

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN015	○	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	-5.000	.000	.000	25.000	.000	.000
R2F029	□	AMES 118-1-11 0A145A 01	.000	-5.000	.000	.000	25.000	.000	
RKN017	◇	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	25.000	.000	
RKN021	◺	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	5.000	.000	.000	25.000	.000	.000
R2F026	◻	AMES 118-1-11 0A145A 01	.000	5.000	.000	.000	25.000	.000	

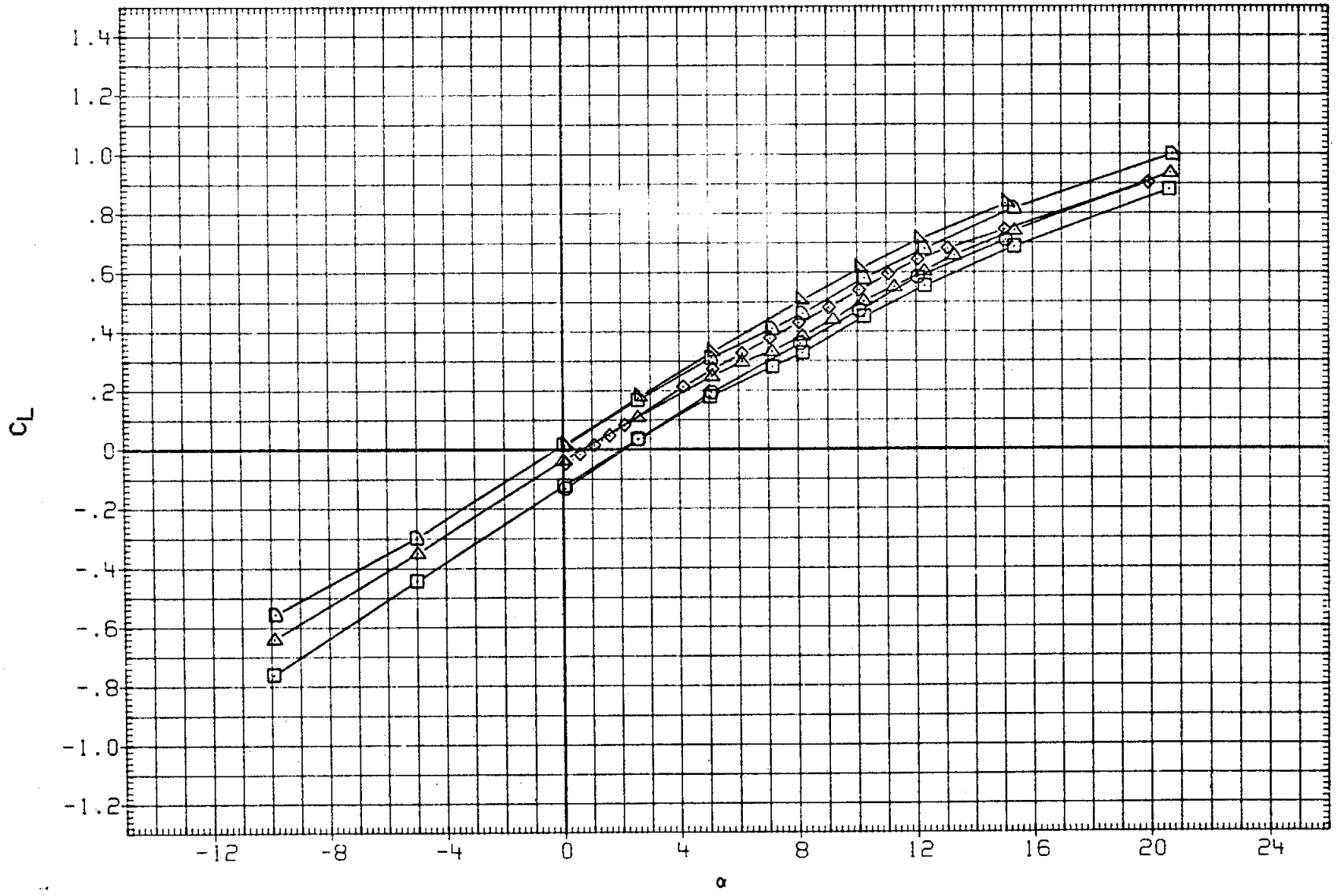

FIGURE 14. BASIC LONGITUDINAL, ELEVON EFFECTS

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN015	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	-5.000	.000	.000	25.000	.000	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN021	◺	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	5.000	.000	.000	25.000	.000	.000
R2F026	◺	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

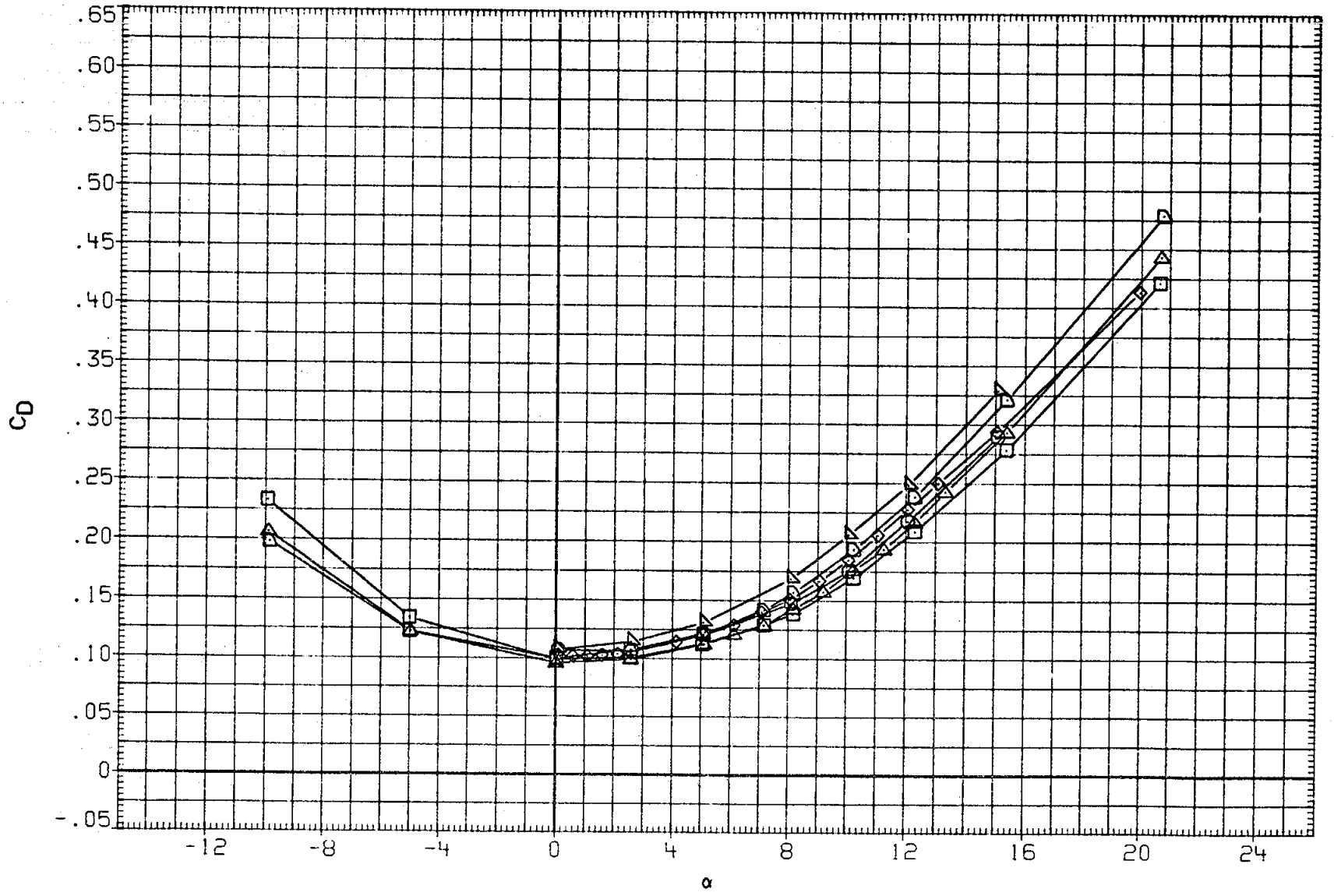

FIGURE 14. BASIC LONGITUDINAL, ELEVON EFFECTS

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN015	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	-5.000	.000	.000	25.000	.000	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN021	◺	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	5.000	.000	.000	25.000	.000	.000
R2F026	◻	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

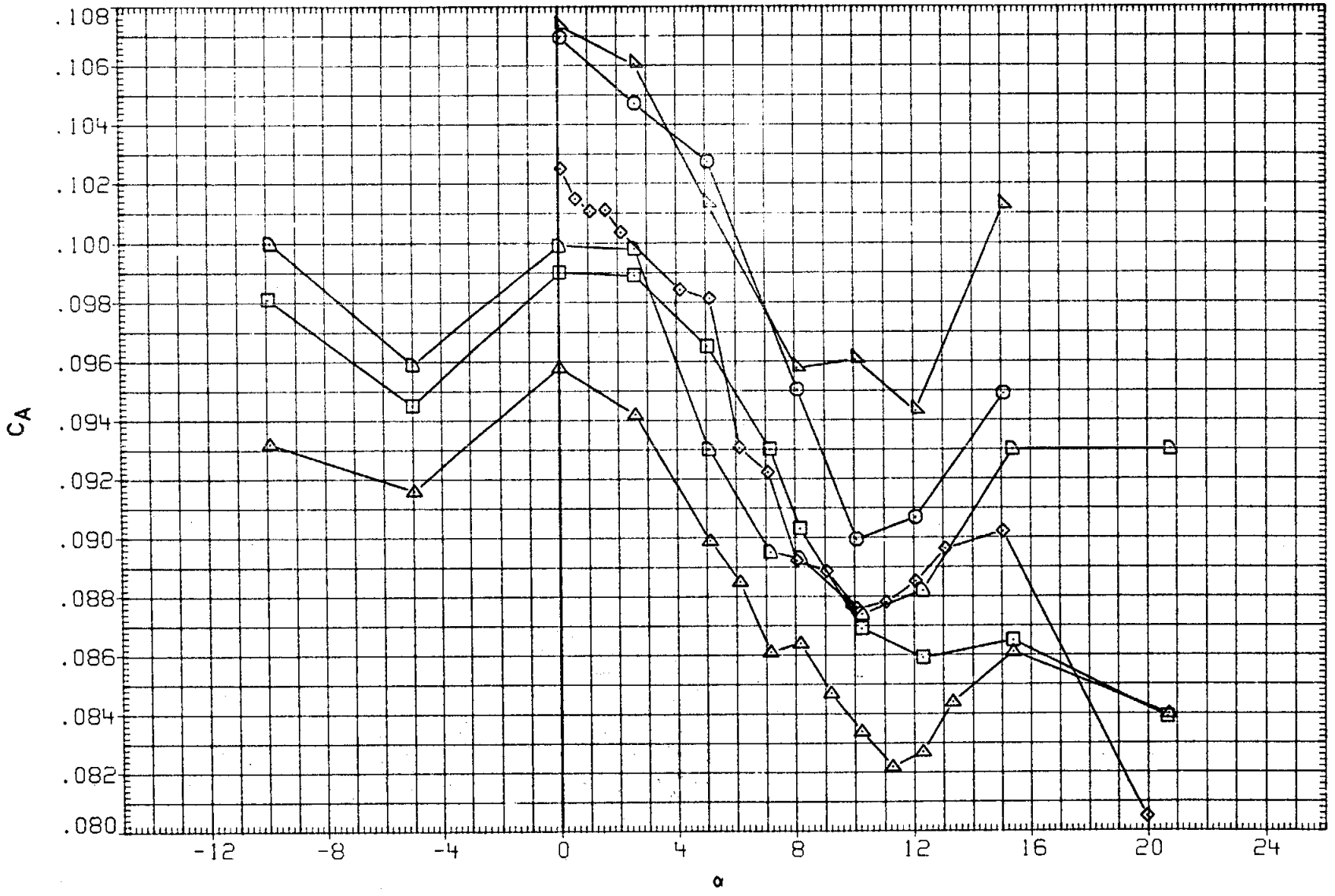

FIGURE 14. BASIC LONGITUDINAL, ELEVON EFFECTS

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION
RKN015	○	DATA NOT AVAILABLE
R2F029	□	AMES 118-1-11 0A145A 01
RKN017	◇	LARC 16FT TWT 326(0A270A) 39-0 ORB.
R2F012	△	AMES 118-1-11 0A145A 01
RKN021	◺	DATA NOT AVAILABLE
R2F026	◻	AMES 118-1-11 0A145A 01

BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
.000	-5.000	.000	.000	25.000	.000	.000
.000	-5.000	.000	.000	25.000	.000	
.000	.000	.000	.000	25.000	.000	.000
.000	.000	.000	.000	25.000	.000	
.000	5.000	.000	.000	25.000	.000	.000
.000	5.000	.000	.000	25.000	.000	

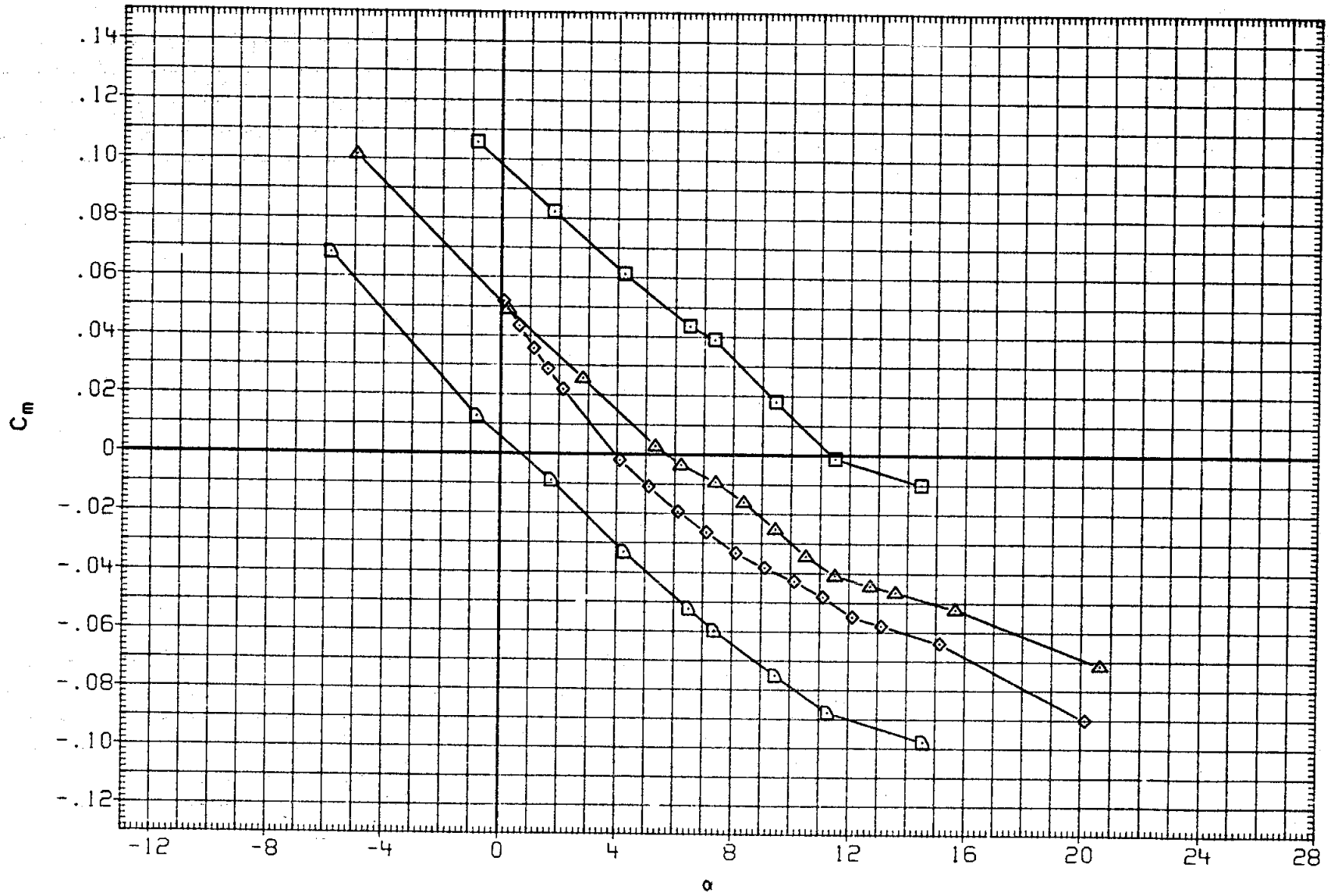

FIGURE 14. BASIC LONGITUDINAL, ELEVON EFFECTS

(E)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN015	○	DATA NOT AVAILABLE	.000	-5.000	.000	.000	25.000	.000	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN021	◺	DATA NOT AVAILABLE	.000	5.000	.000	.000	25.000	.000	.000
R2F026	⬠	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

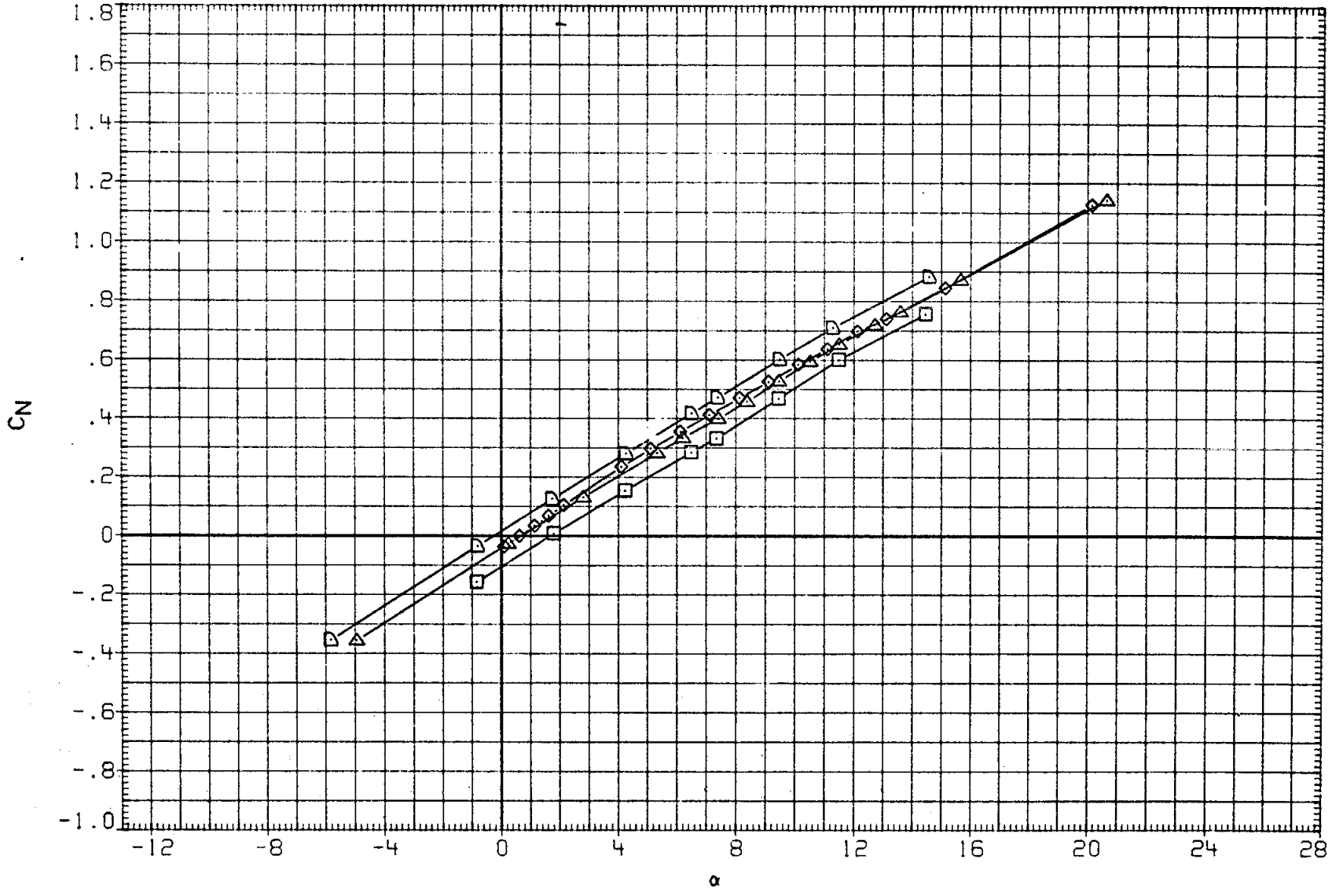

FIGURE 14. BASIC LONGITUDINAL, ELEVON EFFECTS

(E)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION
RKN015	○	DATA NOT AVAILABLE
R2F029	□	AMES 118-1-11 OA145A 01
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.
R2F012	△	AMES 118-1-11 OA145A 01
RKN021	◺	DATA NOT AVAILABLE
R2F026	D	AMES 118-1-11 OA145A 01

BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
.000	-5.000	.000	.000	25.000	.000	.000
.000	-5.000	.000	.000	25.000	.000	
.000	.000	.000	.000	25.000	.000	.000
.000	.000	.000	.000	25.000	.000	
.000	5.000	.000	.000	25.000	.000	.000
.000	5.000	.000	.000	25.000	.000	

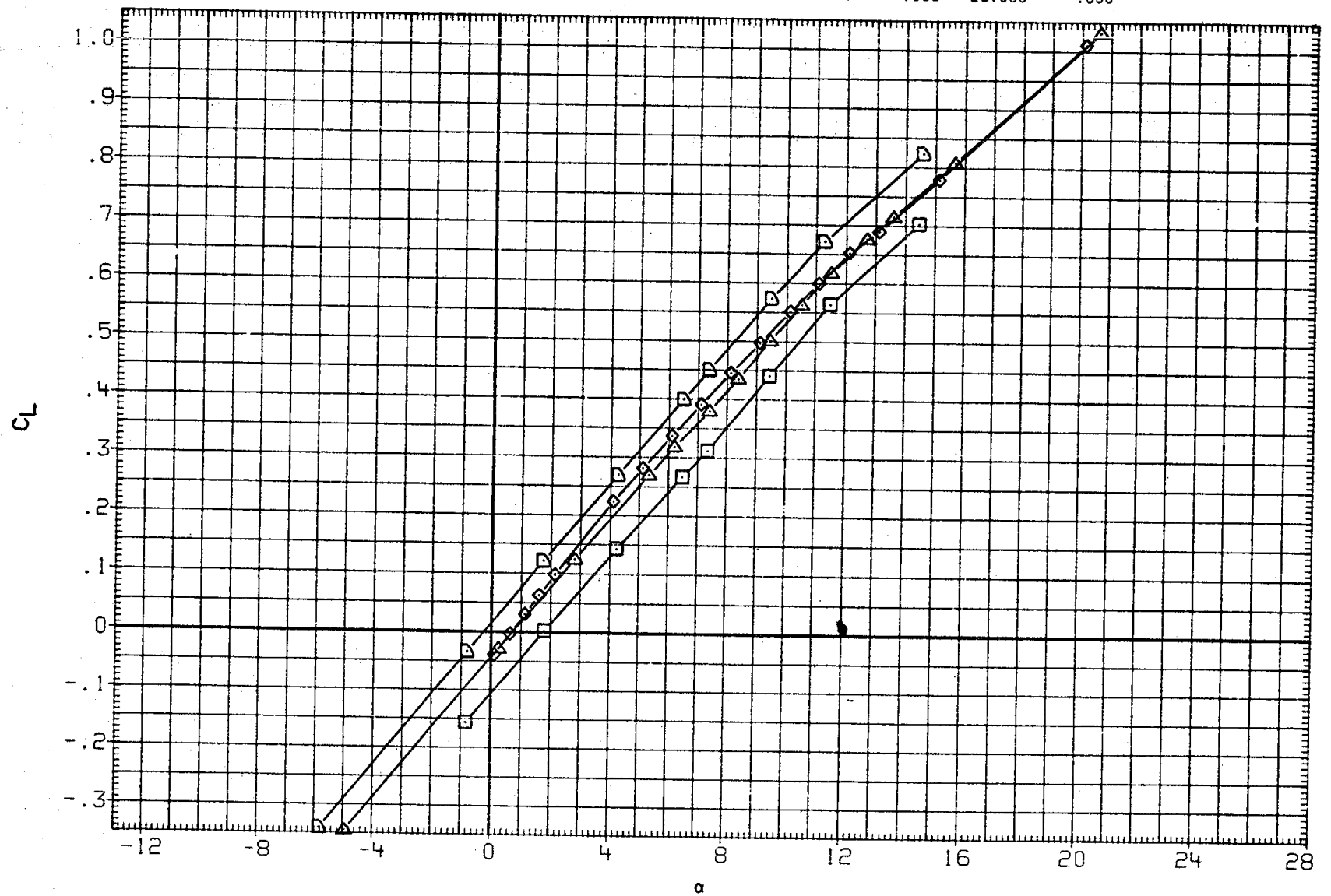

FIGURE 14. BASIC LONGITUDINAL, ELEVON EFFECTS

(E)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN015	○	DATA NOT AVAILABLE	.000	-5.000	.000	.000	25.000	.000	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN021	◺	DATA NOT AVAILABLE	.000	5.000	.000	.000	25.000	.000	.000
R2F026	◸	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

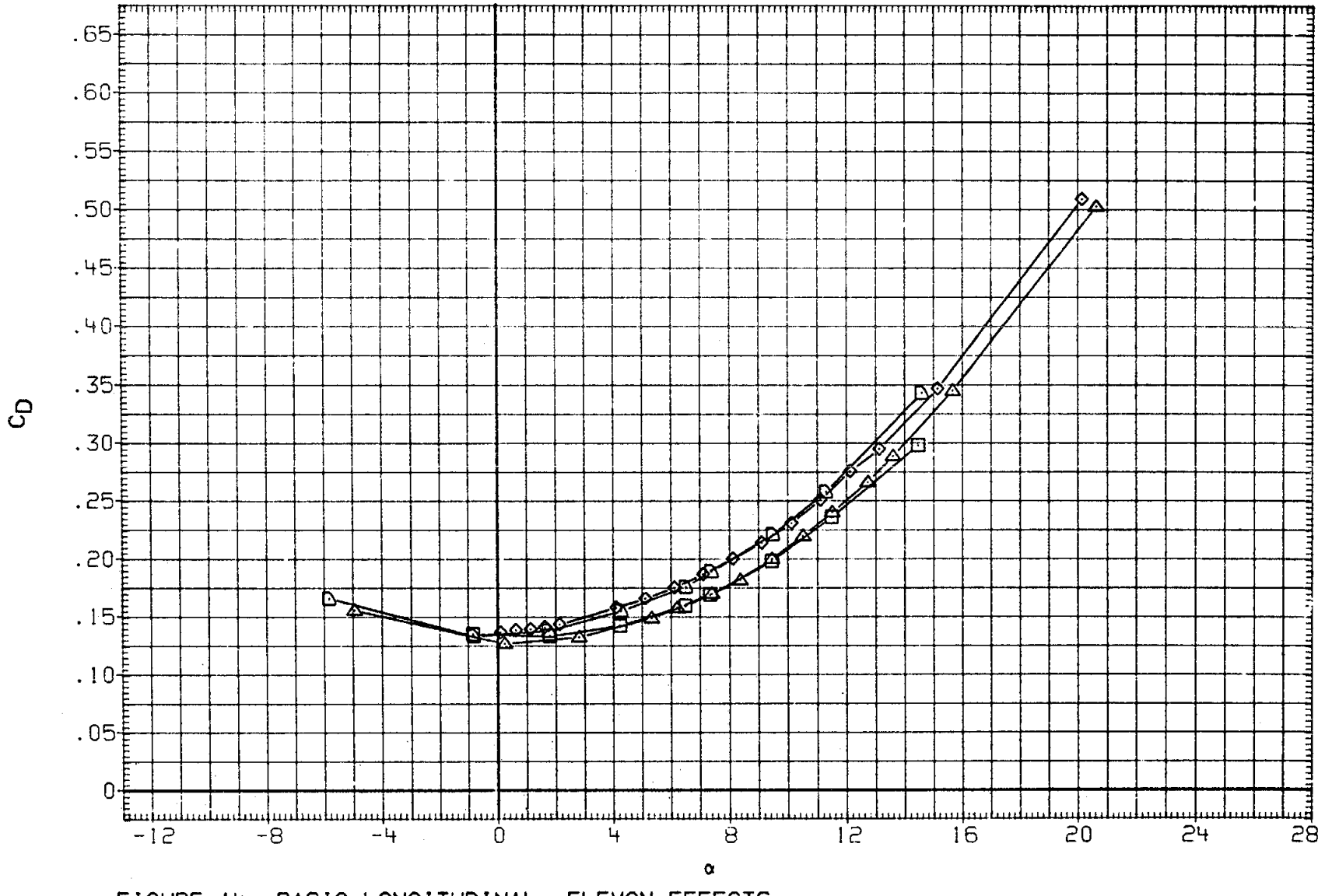

FIGURE 14. BASIC LONGITUDINAL, ELEVON EFFECTS

(E)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN015	○	DATA NOT AVAILABLE	.000	-5.000	.000	.000	25.000	.000	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN021	◺	DATA NOT AVAILABLE	.000	5.000	.000	.000	25.000	.000	.000
R2F026	D	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

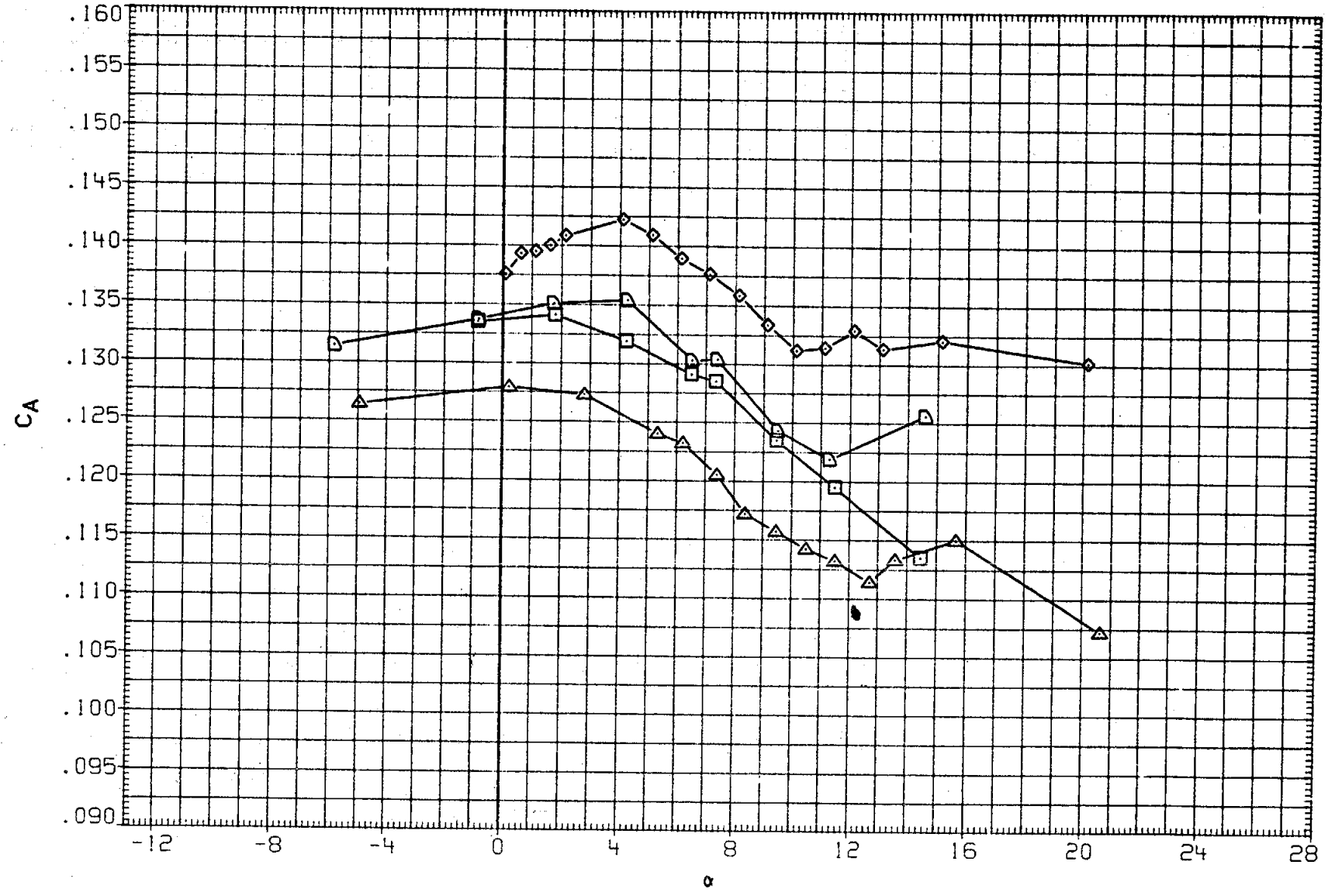

FIGURE 14..BASIC LONGITUDINAL, ELEVON EFFECTS

(E)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN015	○	DATA NOT AVAILABLE	.000	-5.000	.000	.000	25.000	.000	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN021	◺	DATA NOT AVAILABLE	.000	5.000	.000	.000	25.000	.000	.000
R2F026	◻	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

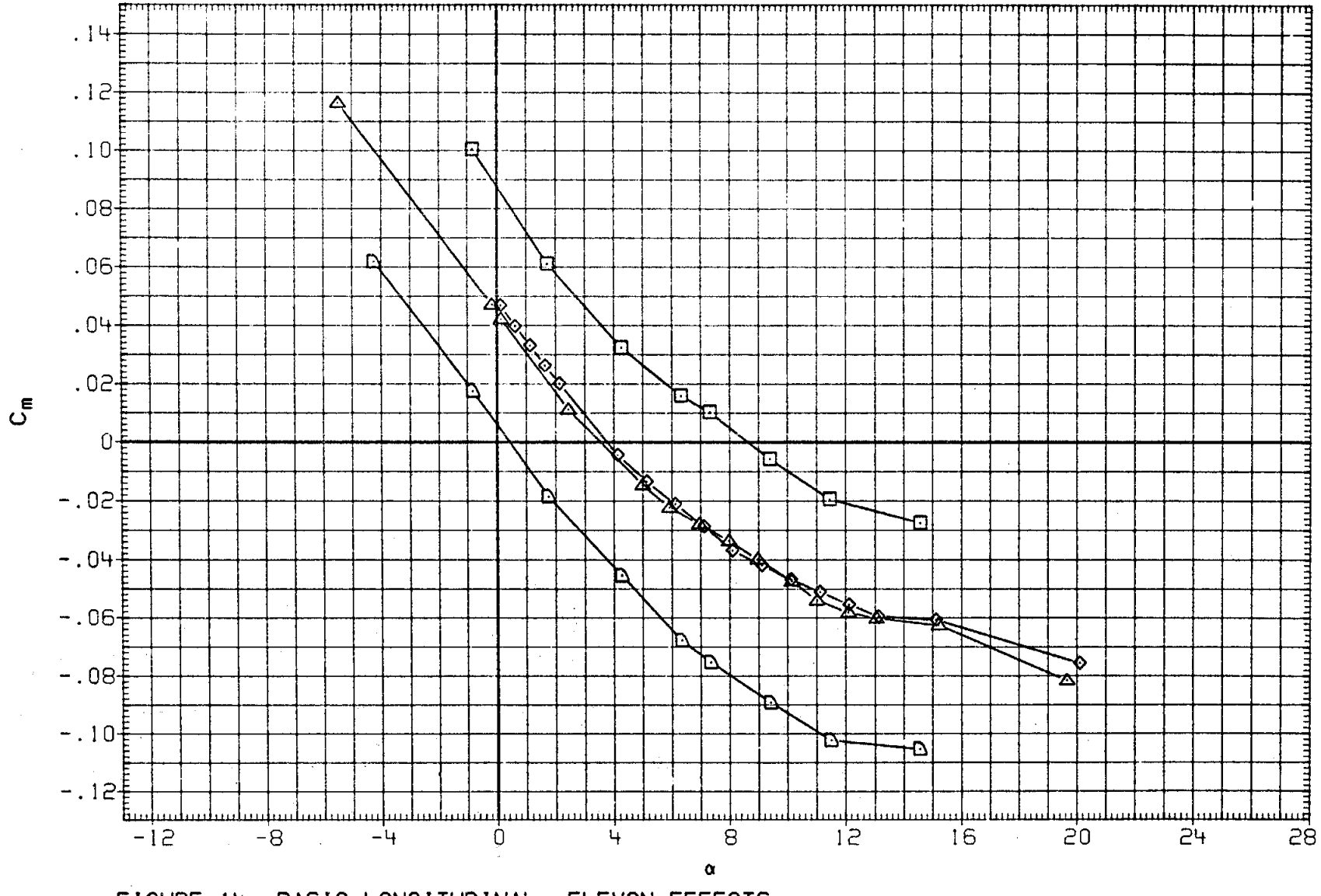

FIGURE 14. BASIC LONGITUDINAL, ELEVON EFFECTS

(F)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION
RKN015	○	DATA NOT AVAILABLE
R2F029	□	AMES 11B-1-11 OA145A 01
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.
R2F012	△	AMES 11B-1-11 OA145A 01
RKN021	▷	DATA NOT AVAILABLE
R2F026	D	AMES 11B-1-11 OA145A 01

BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
.000	-5.000	.000	.000	25.000	.000	.000
.000	-5.000	.000	.000	25.000	.000	
.000	.000	.000	.000	25.000	.000	.000
.000	.000	.000	.000	25.000	.000	
.000	5.000	.000	.000	25.000	.000	.000
.000	5.000	.000	.000	25.000	.000	

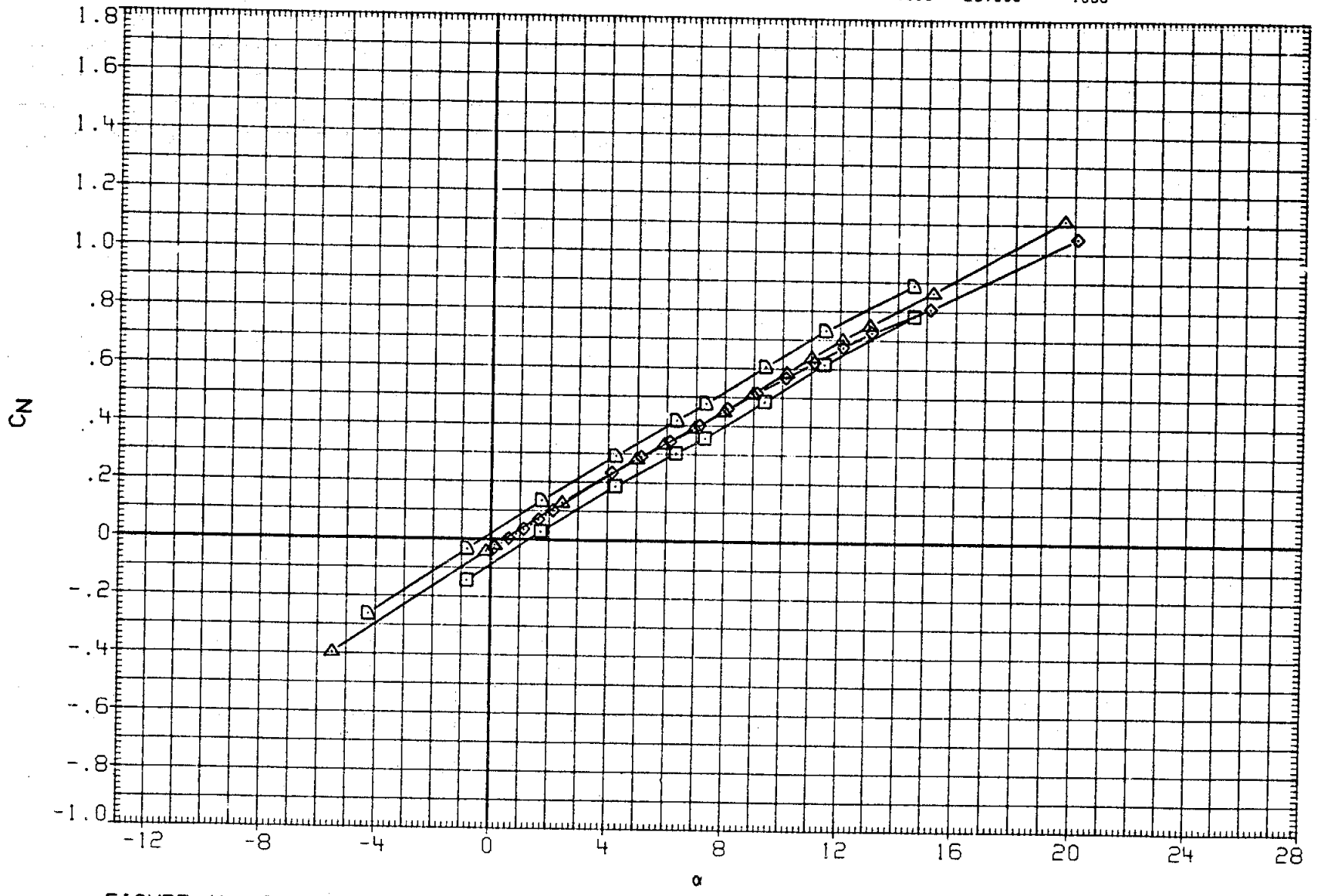

FIGURE 14. BASIC LONGITUDINAL, ELEVON EFFECTS

(F)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN015	○	DATA NOT AVAILABLE	.000	-5.000	.000	.000	25.000	.000	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN021	◺	DATA NOT AVAILABLE	.000	5.000	.000	.000	25.000	.000	.000
R2F026	D	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

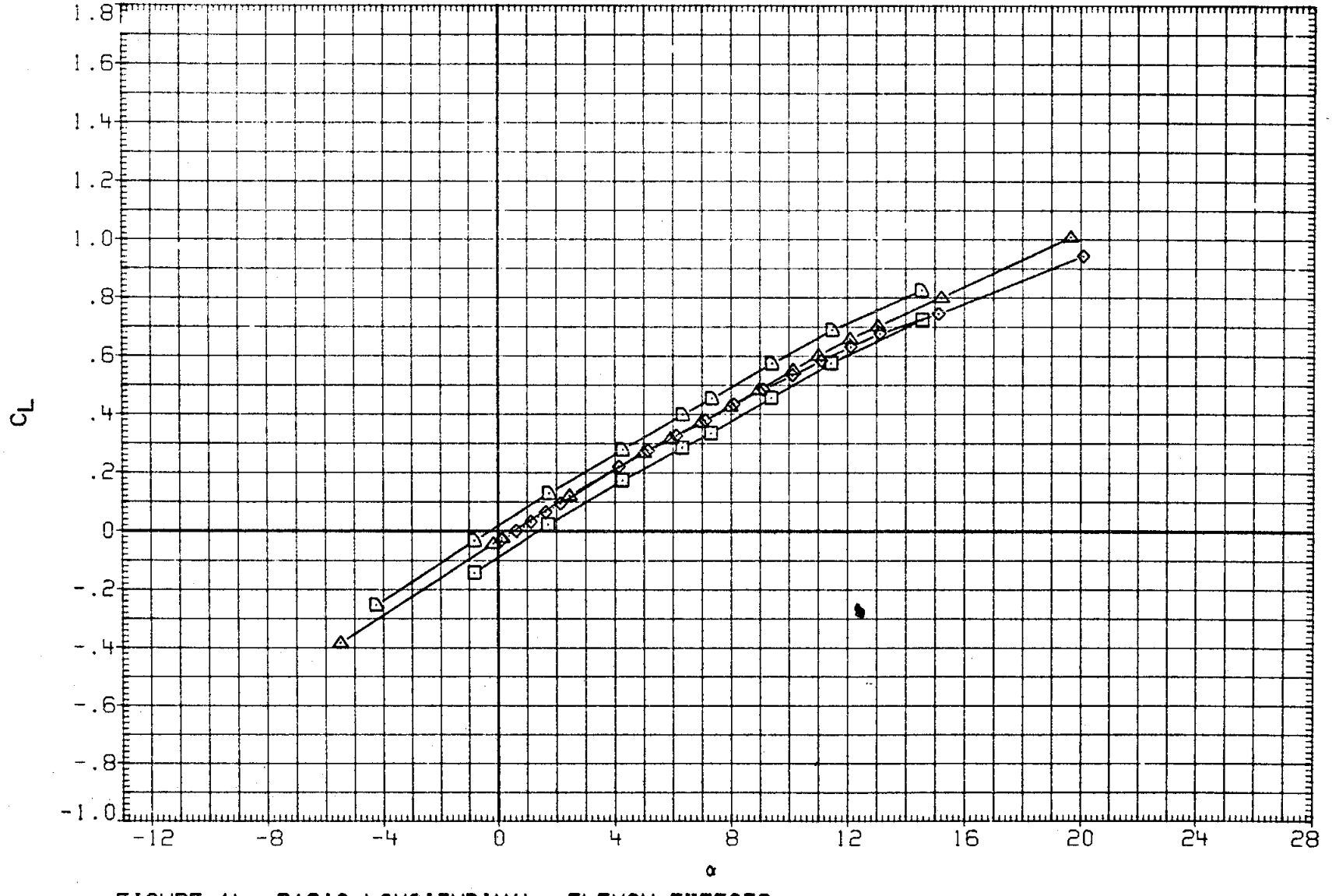

FIGURE 14. BASIC LONGITUDINAL, ELEVON EFFECTS

(F)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION
RKN015	○	DATA NOT AVAILABLE
R2F029	□	AMES 118-1-11 OA145A 01
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.
R2F012	△	AMES 118-1-11 OA145A 01
RKN021	◺	DATA NOT AVAILABLE
R2F026	D	AMES 118-1-11 OA145A 01

BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
.000	-5.000	.000	.000	25.000	.000	.000
.000	-5.000	.000	.000	25.000	.000	
.000	.000	.000	.000	25.000	.000	.000
.000	.000	.000	.000	25.000	.000	
.000	5.000	.000	.000	25.000	.000	.000
.000	5.000	.000	.000	25.000	.000	

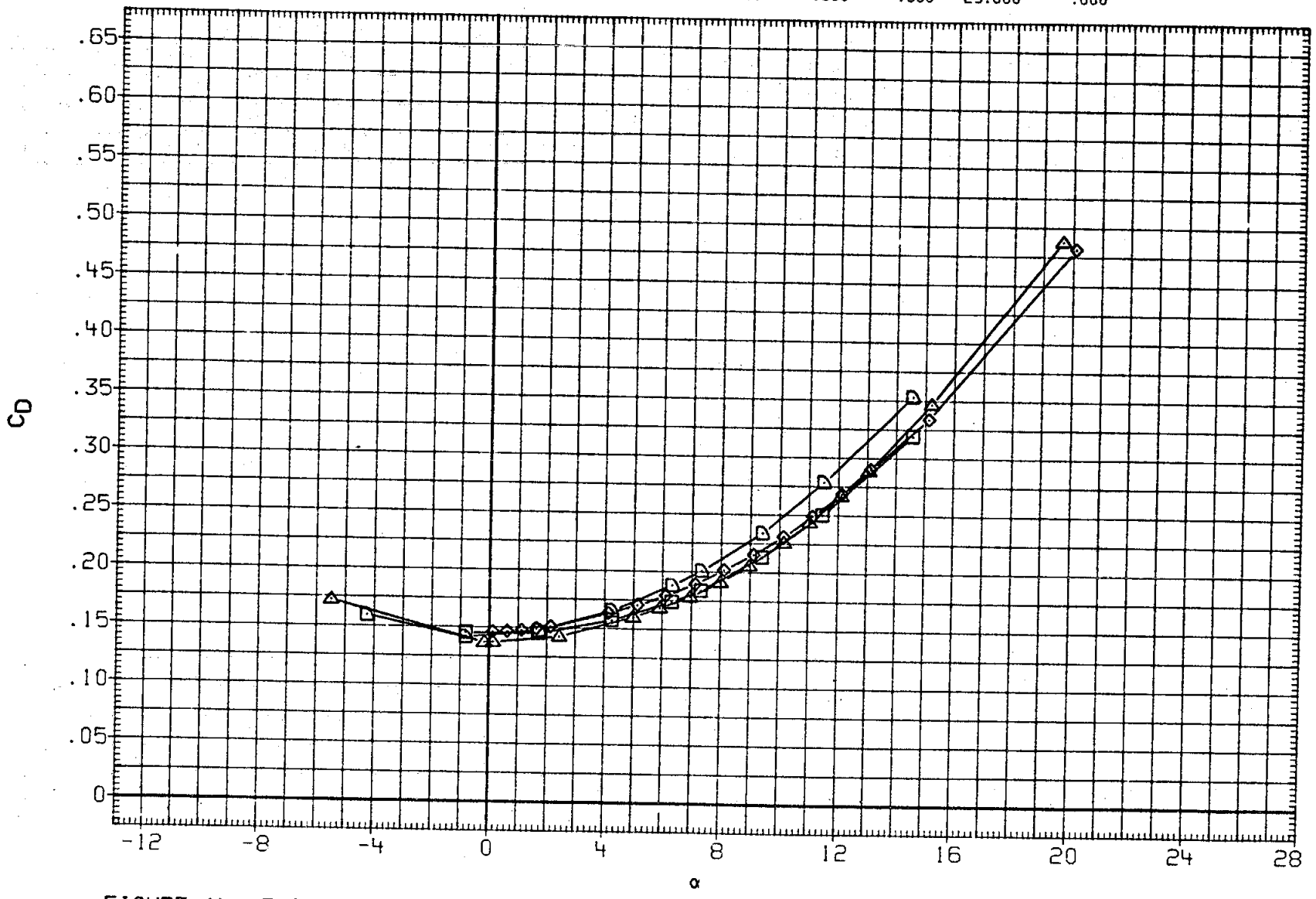

FIGURE 14. BASIC LONGITUDINAL, ELEVON EFFECTS

(F)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN015	○	DATA NOT AVAILABLE	.000	-5.000	.000	.000	25.000	.000	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN021	◺	DATA NOT AVAILABLE	.000	5.000	.000	.000	25.000	.000	.000
R2F026	D	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

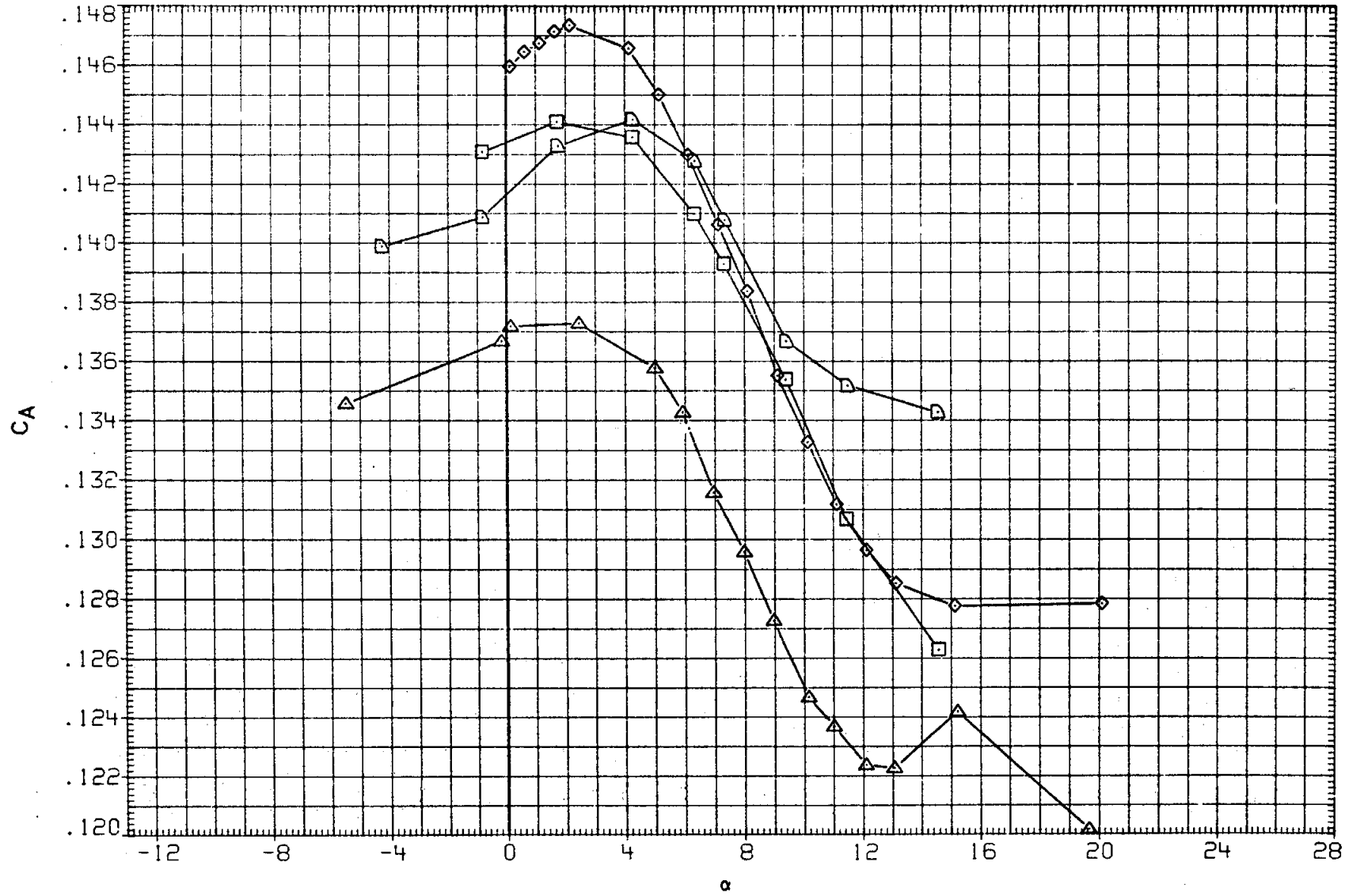

FIGURE 14. BASIC LONGITUDINAL, ELEVON EFFECTS

(F)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN015	○	DATA NOT AVAILABLE	.000	-5.000	.000	.000	25.000	.000	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN021	▷	DATA NOT AVAILABLE	.000	5.000	.000	.000	25.000	.000	.000
R2F026	D	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

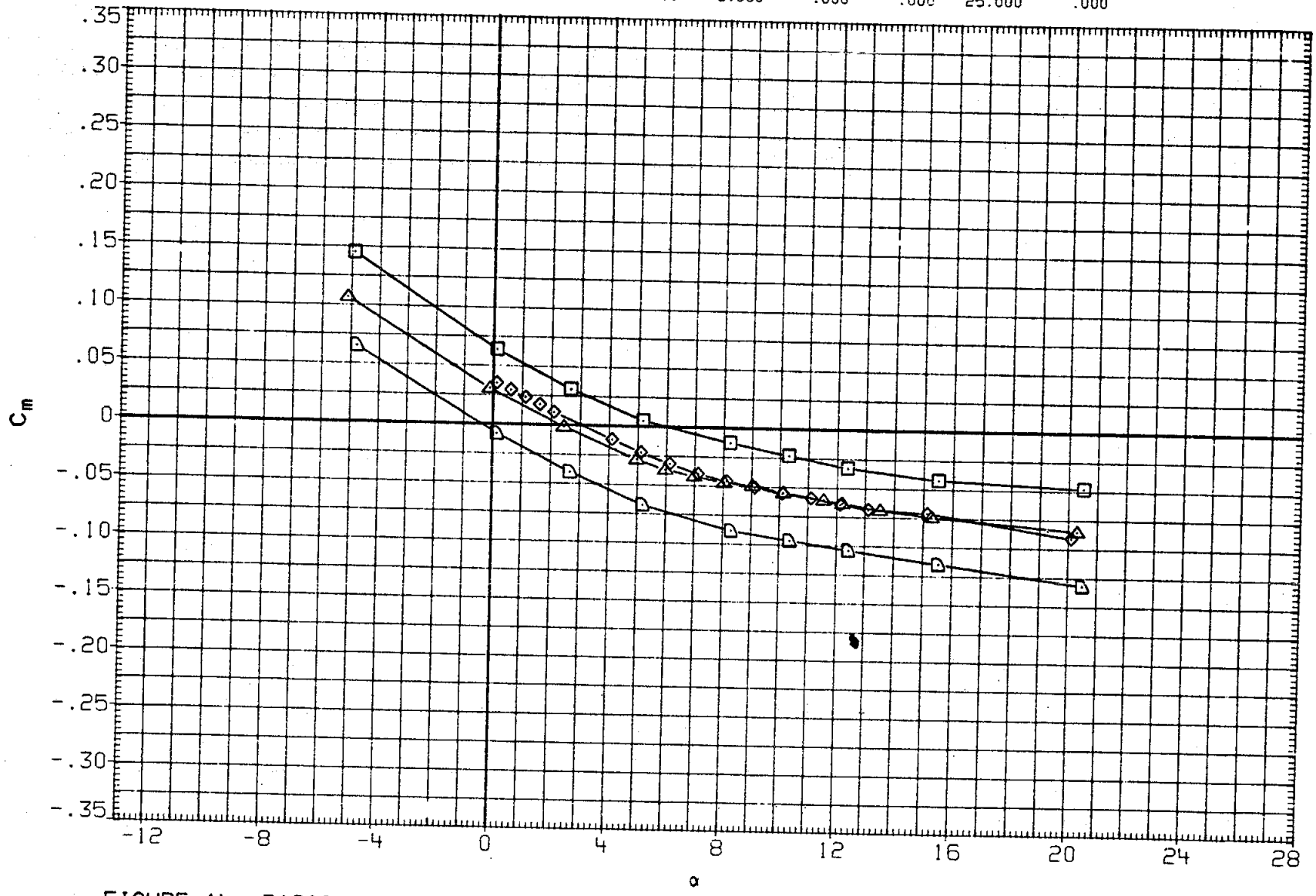

FIGURE 14. BASIC LONGITUDINAL, ELEVON EFFECTS

(G)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN015	○	DATA NOT AVAILABLE	.000	-5.000	.000	.000	25.000	.000	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F017	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN021	◁	DATA NOT AVAILABLE	.000	5.000	.000	.000	25.000	.000	.000
R2F026	D	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

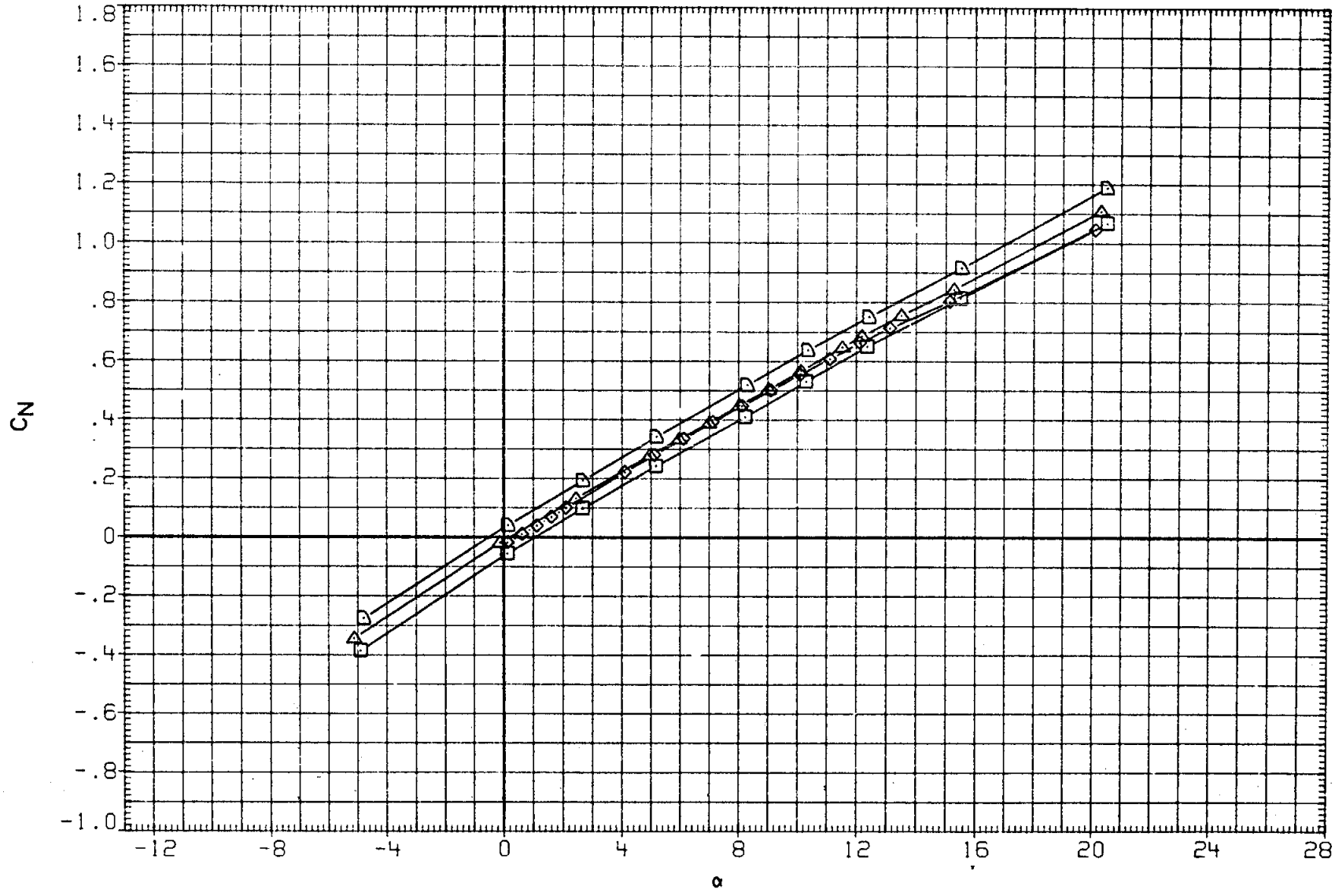

FIGURE 14. BASIC LONGITUDINAL, ELEVON EFFECTS

(G)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN015	○	DATA NOT AVAILABLE	.000	-5.000	.000	.000	25.000	.000	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN021	▷	DATA NOT AVAILABLE	.000	5.000	.000	.000	25.000	.000	.000
R2F026	D	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

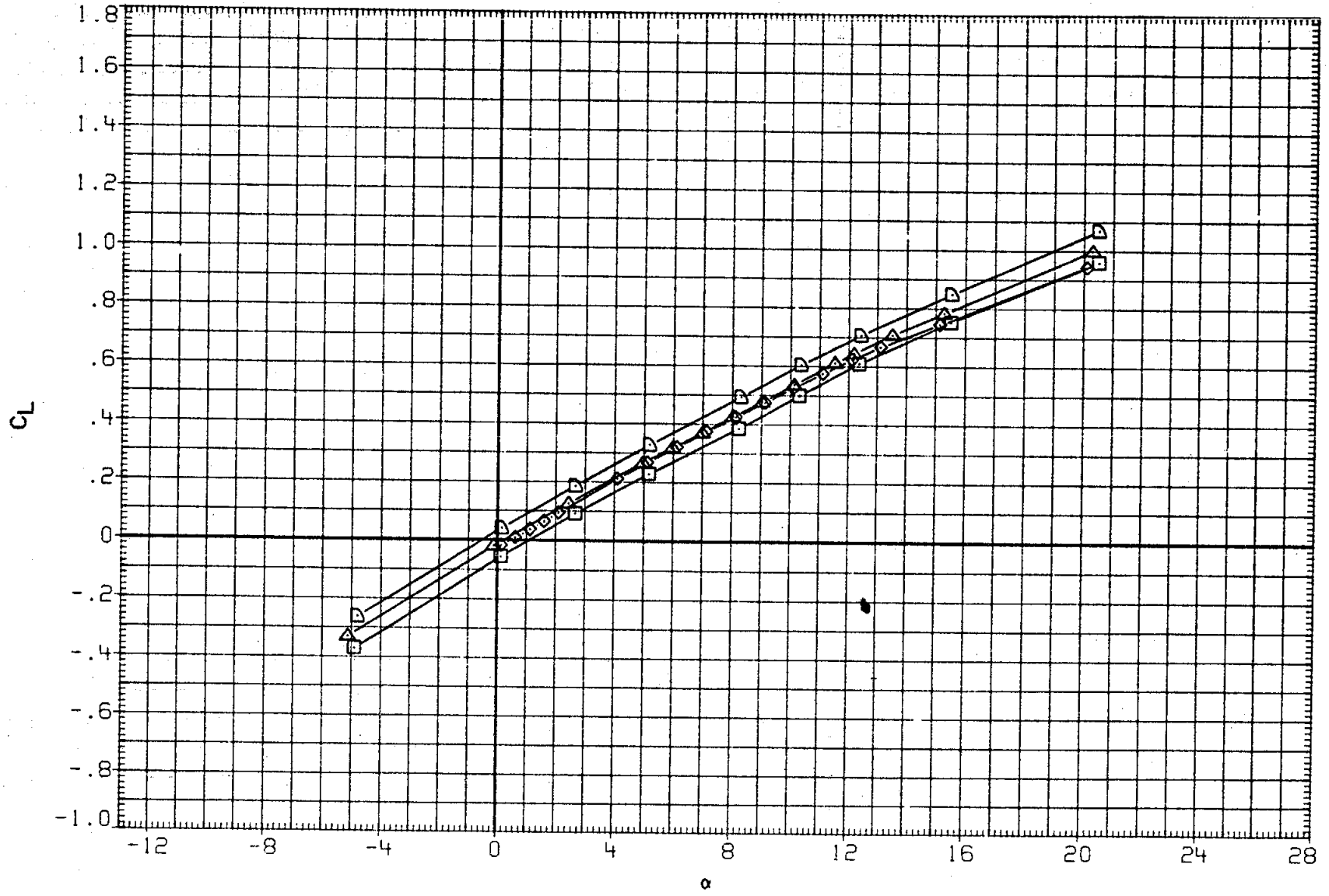

FIGURE 14. BASIC LONGITUDINAL, ELEVON EFFECTS

(G)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN015	○	DATA NOT AVAILABLE	.000	-5.000	.000	.000	25.000	.000	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN021	◺	DATA NOT AVAILABLE	.000	5.000	.000	.000	25.000	.000	.000
R2F026	D	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

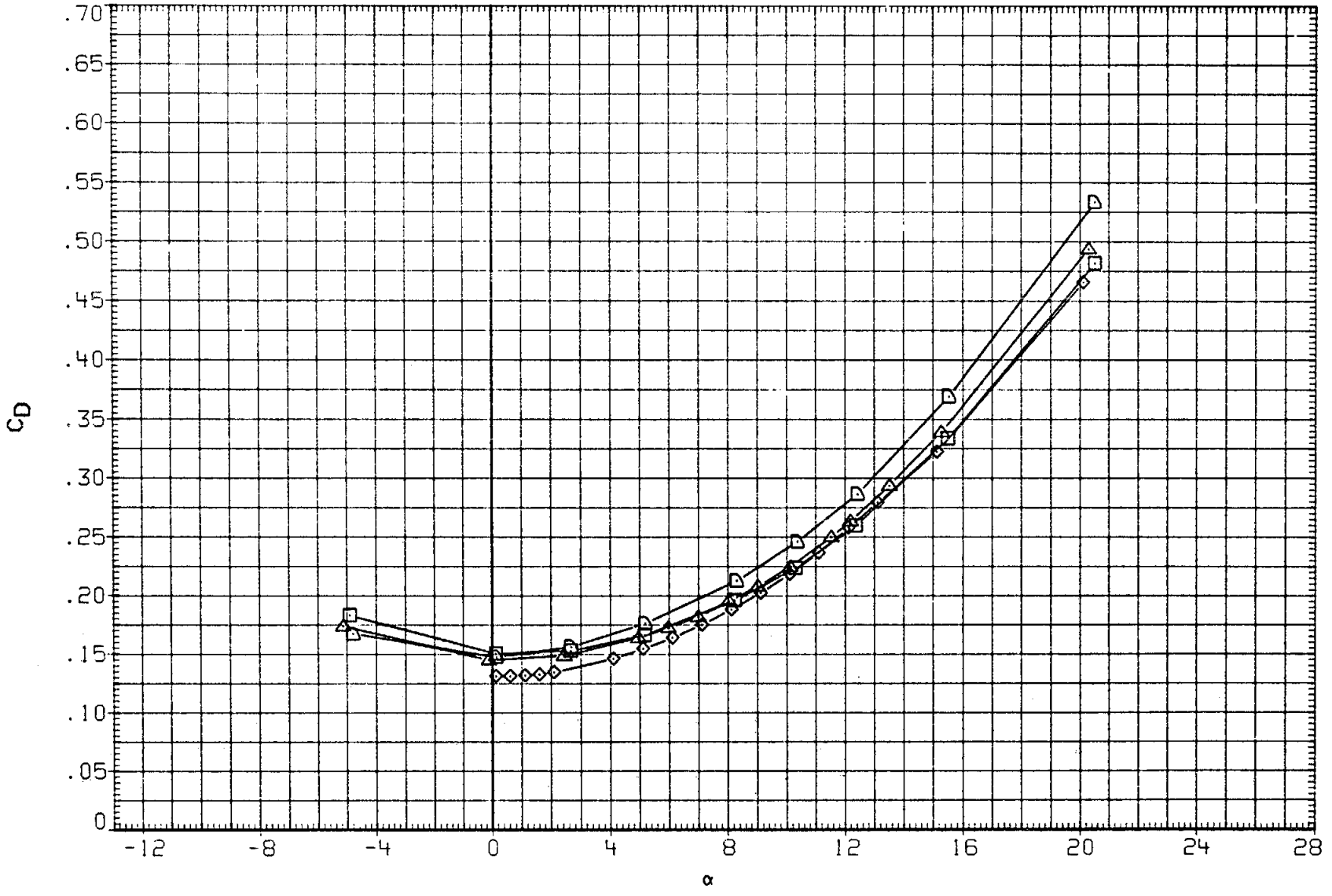

FIGURE 14. BASIC LONGITUDINAL, ELEVON EFFECTS

(G)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN015	○	DATA NOT AVAILABLE	.000	-5.000	.000	.000	25.000	.000	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN021	◺	DATA NOT AVAILABLE	.000	5.000	.000	.000	25.000	.000	.000
R2F026	D	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

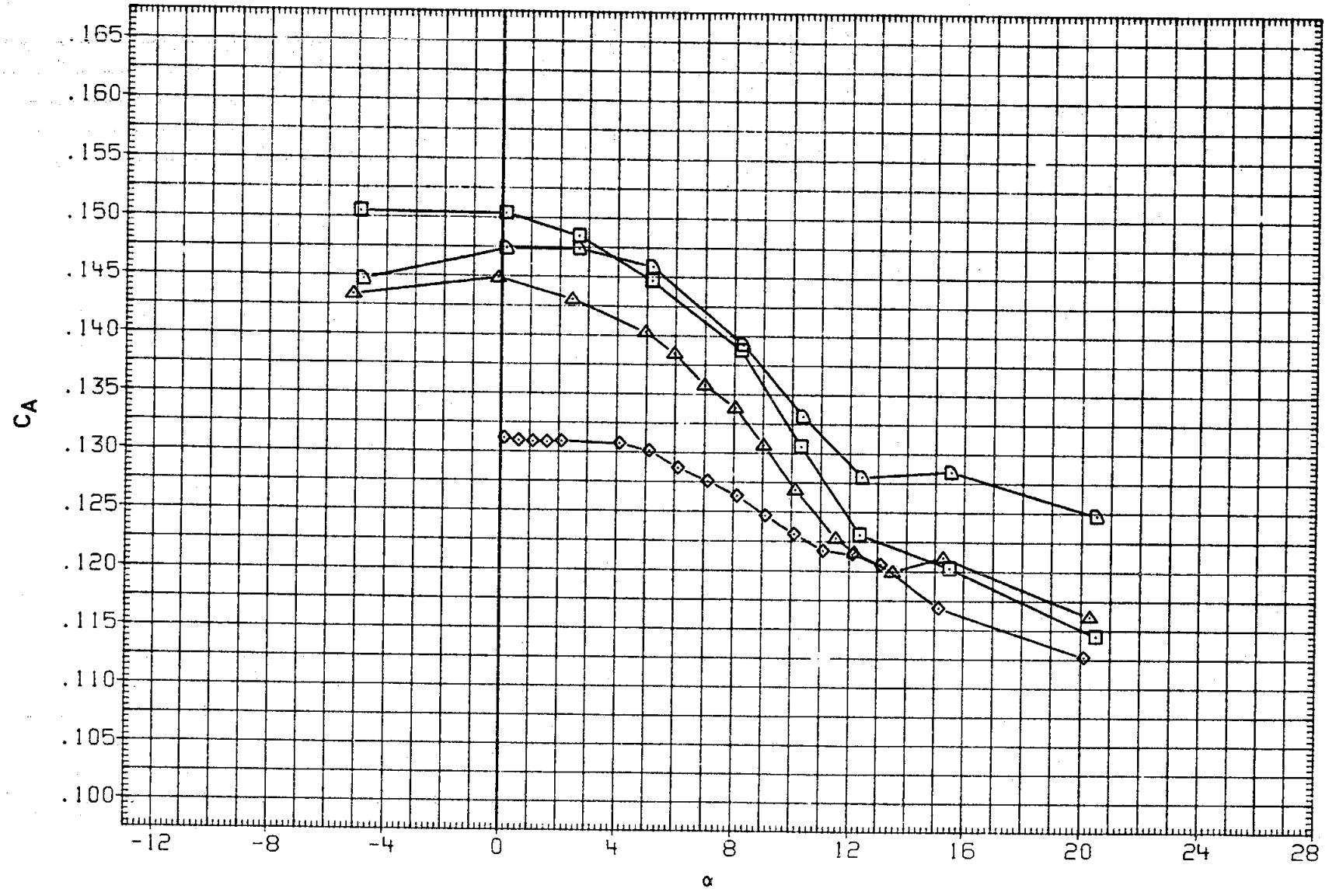

FIGURE 14. BASIC LONGITUDINAL, ELEVON EFFECTS

(G)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN015	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	-5.000	.000	.000	25.000	.000	.000
R2F029	□	DATA NOT AVAILABLE	.000	-5.000	.000	.000	25.000	.000	
RKN017	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RKN021	◺	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	5.000	.000	.000	25.000	.000	.000
R2F026	▢	DATA NOT AVAILABLE	.000	5.000	.000	.000	25.000	.000	

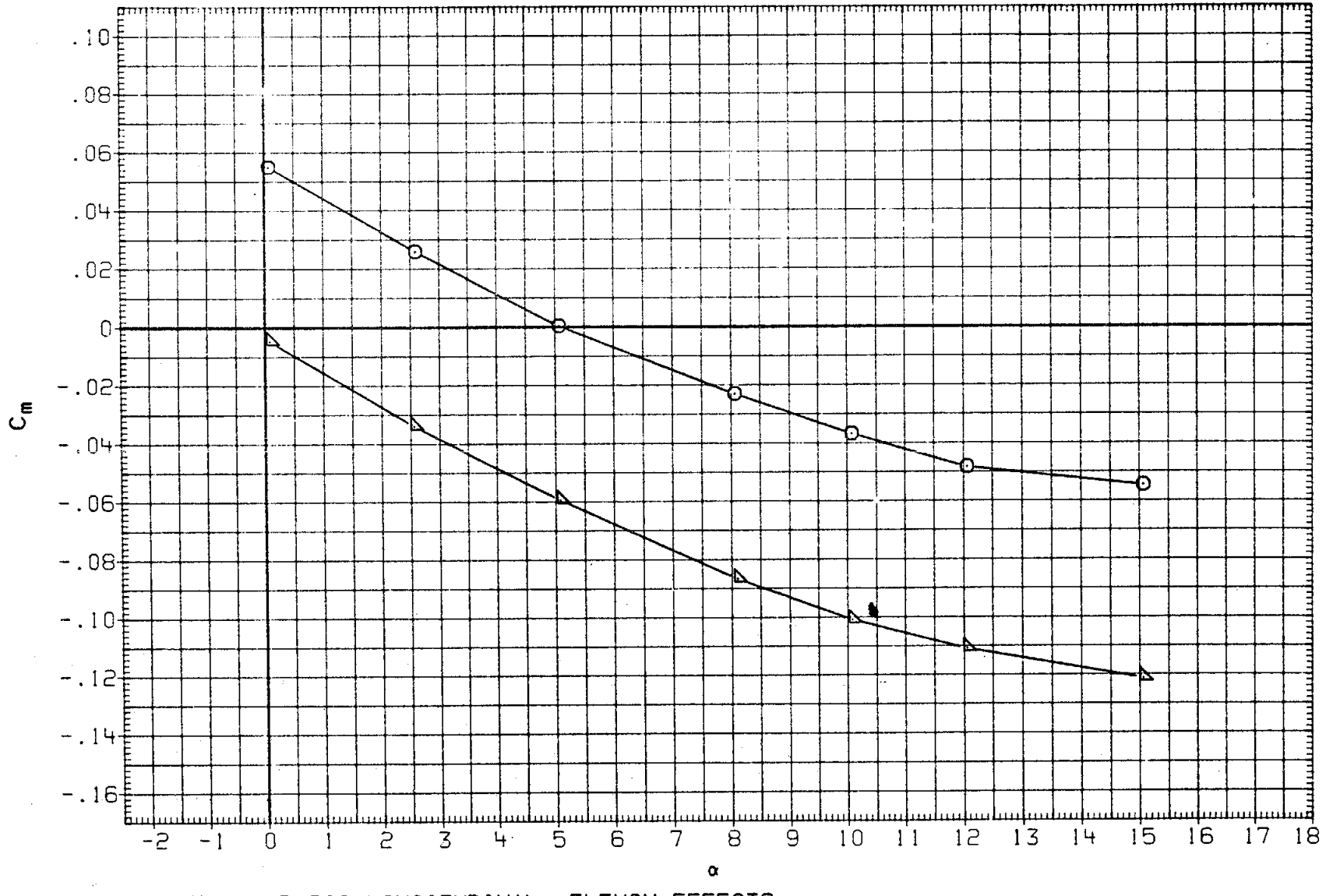

FIGURE 14. BASIC LONGITUDINAL, ELEVON EFFECTS

(H)MACH = 1.27

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN015	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	-5.000	.000	.000	25.000	.000	.000
R2F029	□	DATA NOT AVAILABLE	.000	-5.000	.000	.000	25.000	.000	
RKN017	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RKN021	◺	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	5.000	.000	.000	25.000	.000	.000
R2F026	D	DATA NOT AVAILABLE	.000	5.000	.000	.000	25.000	.000	

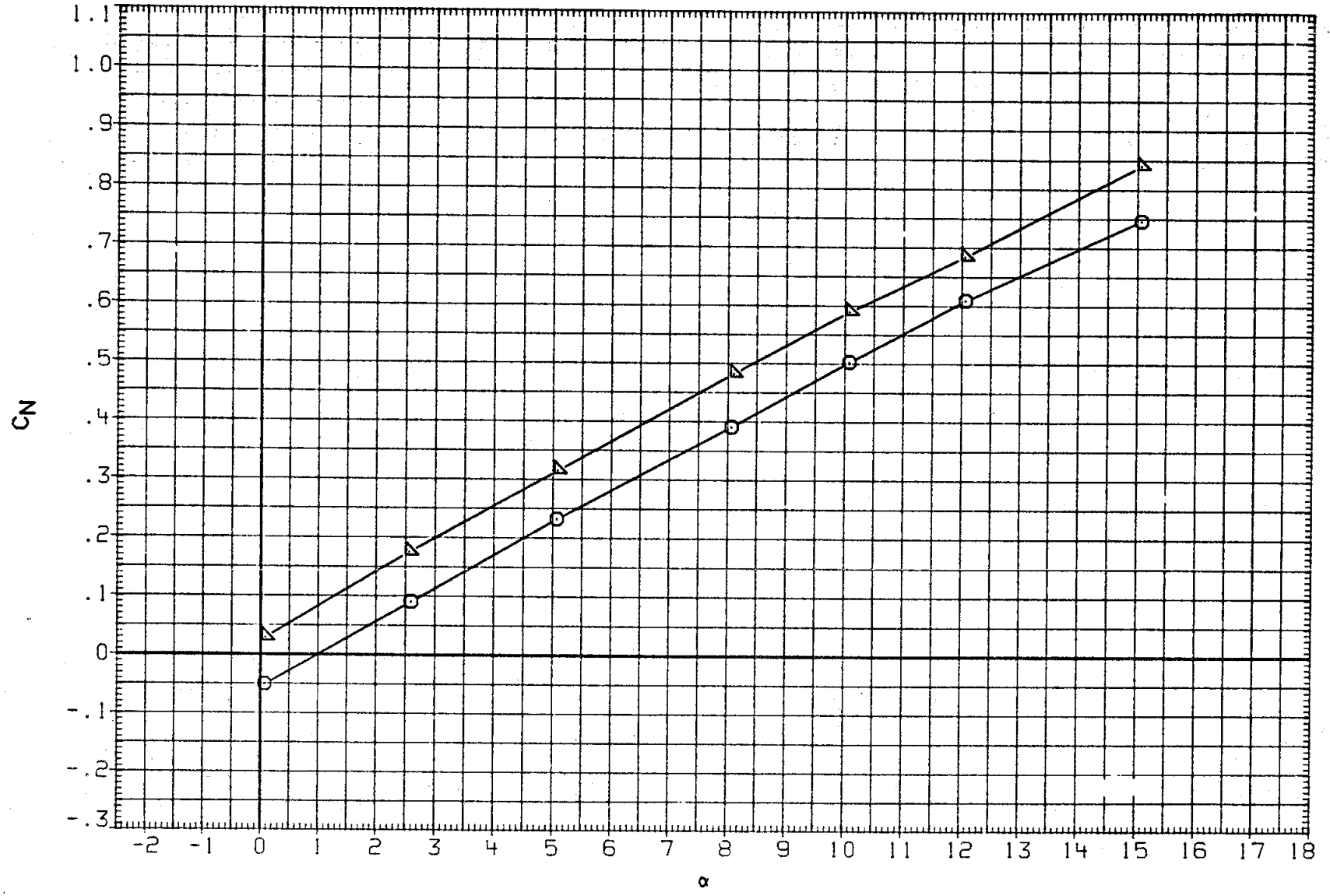

FIGURE 14. BASIC LONGITUDINAL, ELEVON EFFECTS

(H)MACH = 1.27

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN015	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	-5.000	.000	.000	25.000	.000	.000
R2F029	□	DATA NOT AVAILABLE	.000	-5.000	.000	.000	25.000	.000	
RKN017	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RKN021	◺	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	5.000	.000	.000	25.000	.000	.000
R2F026	◻	DATA NOT AVAILABLE	.000	5.000	.000	.000	25.000	.000	

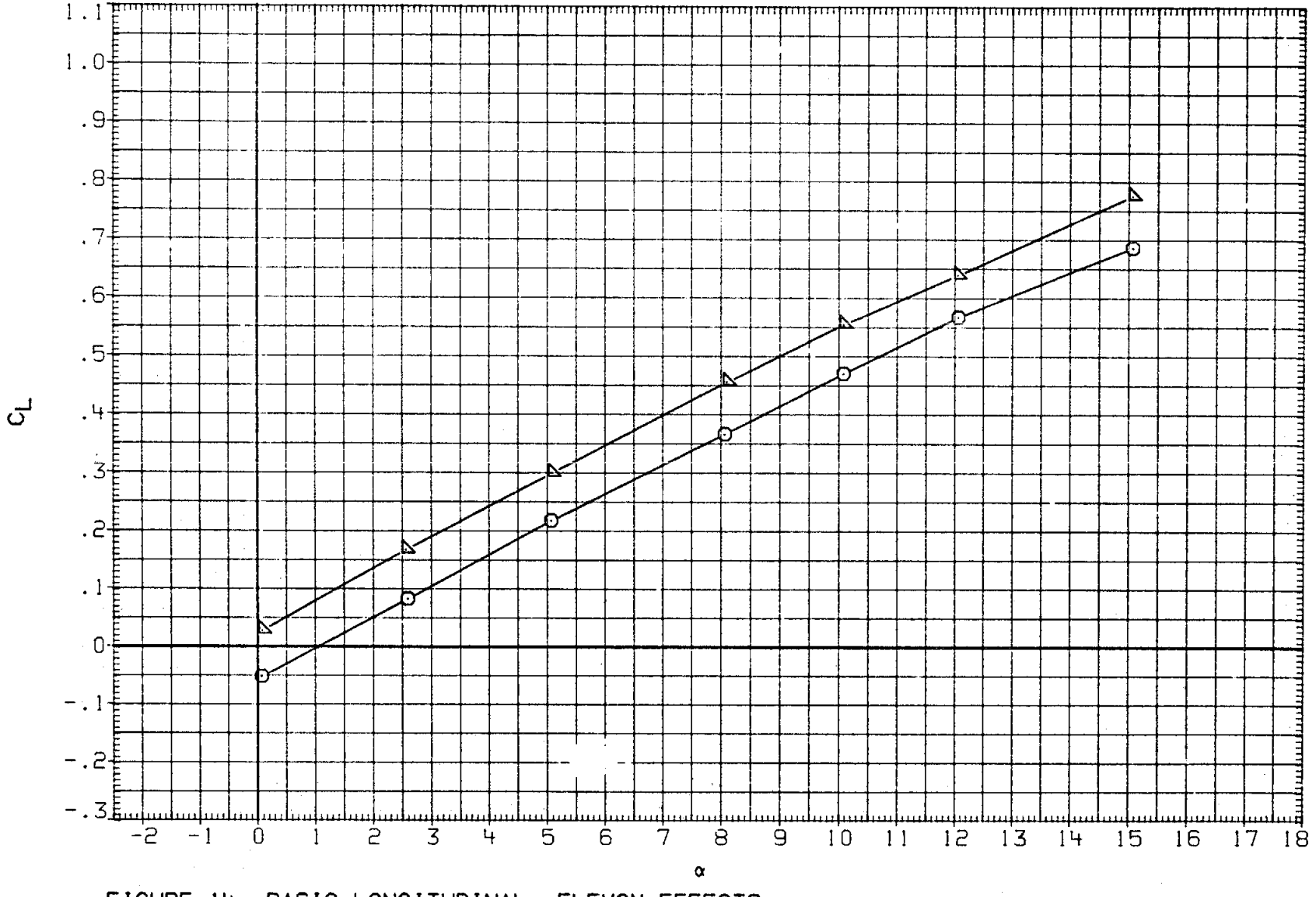

FIGURE 14. BASIC LONGITUDINAL, ELEVON EFFECTS

(H)MACH = 1.27

DATA SET	SYMBOL	CONFIGURATION
RKN015	○	LARC 16FT TWT 326(0A270A) 39-0 ORB.
R2F029	□	DATA NOT AVAILABLE
RKN017	◇	DATA NOT AVAILABLE
R2F012	△	DATA NOT AVAILABLE
RKN021	◺	LARC 16FT TWT 326(0A270A) 39-0 ORB.
R2F026	◻	DATA NOT AVAILABLE

BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
.000	-5.000	.000	.000	25.000	.000	.000
.000	-5.000	.000	.000	25.000	.000	
.000	.000	.000	.000	25.000	.000	.000
.000	.000	.000	.000	25.000	.000	
.000	5.000	.000	.000	25.000	.000	.000
.000	5.000	.000	.000	25.000	.000	

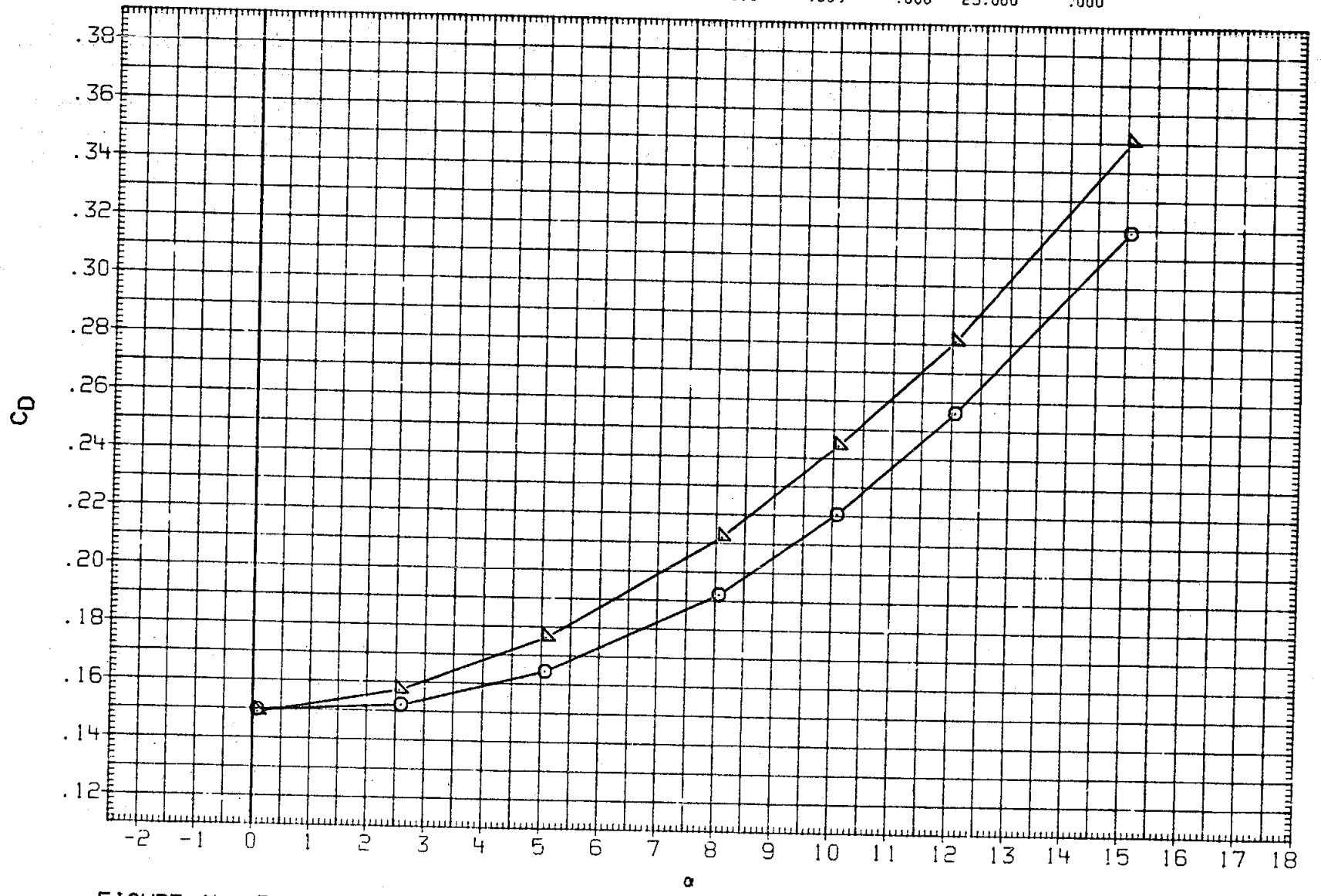

FIGURE 14. BASIC LONGITUDINAL, ELEVON EFFECTS

(H)MACH = 1.27

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN015	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	-5.000	.000	.000	25.000	.000	.000
R2F029	□	DATA NOT AVAILABLE	.000	-5.000	.000	.000	25.000	.000	
RKN017	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RKN021	◺	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	5.000	.000	.000	25.000	.000	.000
R2F026	◻	DATA NOT AVAILABLE	.000	5.000	.000	.000	25.000	.000	

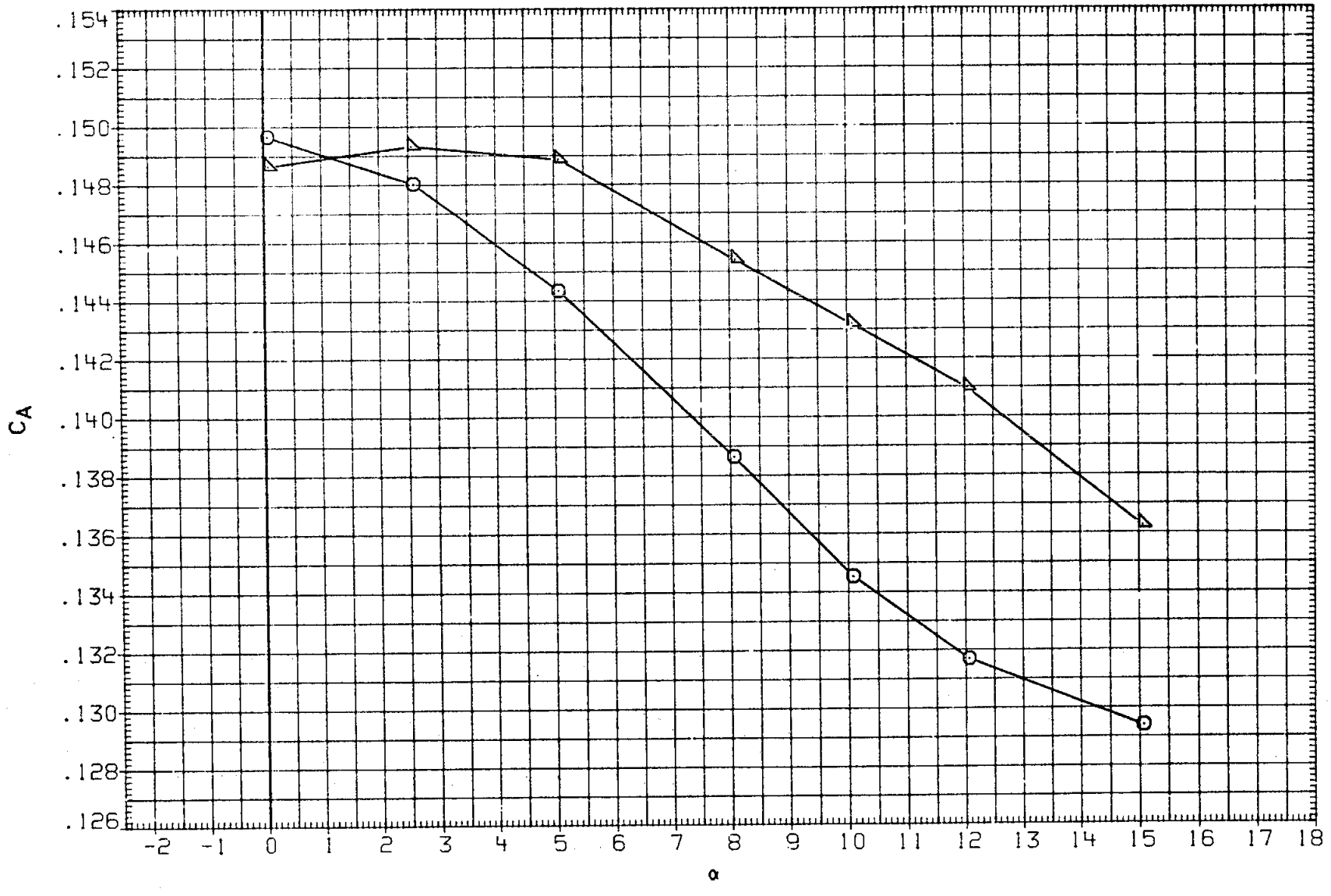

FIGURE 14. BASIC LONGITUDINAL, ELEVON EFFECTS

(H)MACH = 1.27

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN015	○	DATA NOT AVAILABLE	.000	-5.000	.000	.000	25.000	.000	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN021	◺	DATA NOT AVAILABLE	.000	5.000	.000	.000	25.000	.000	.000
R2F026	D	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

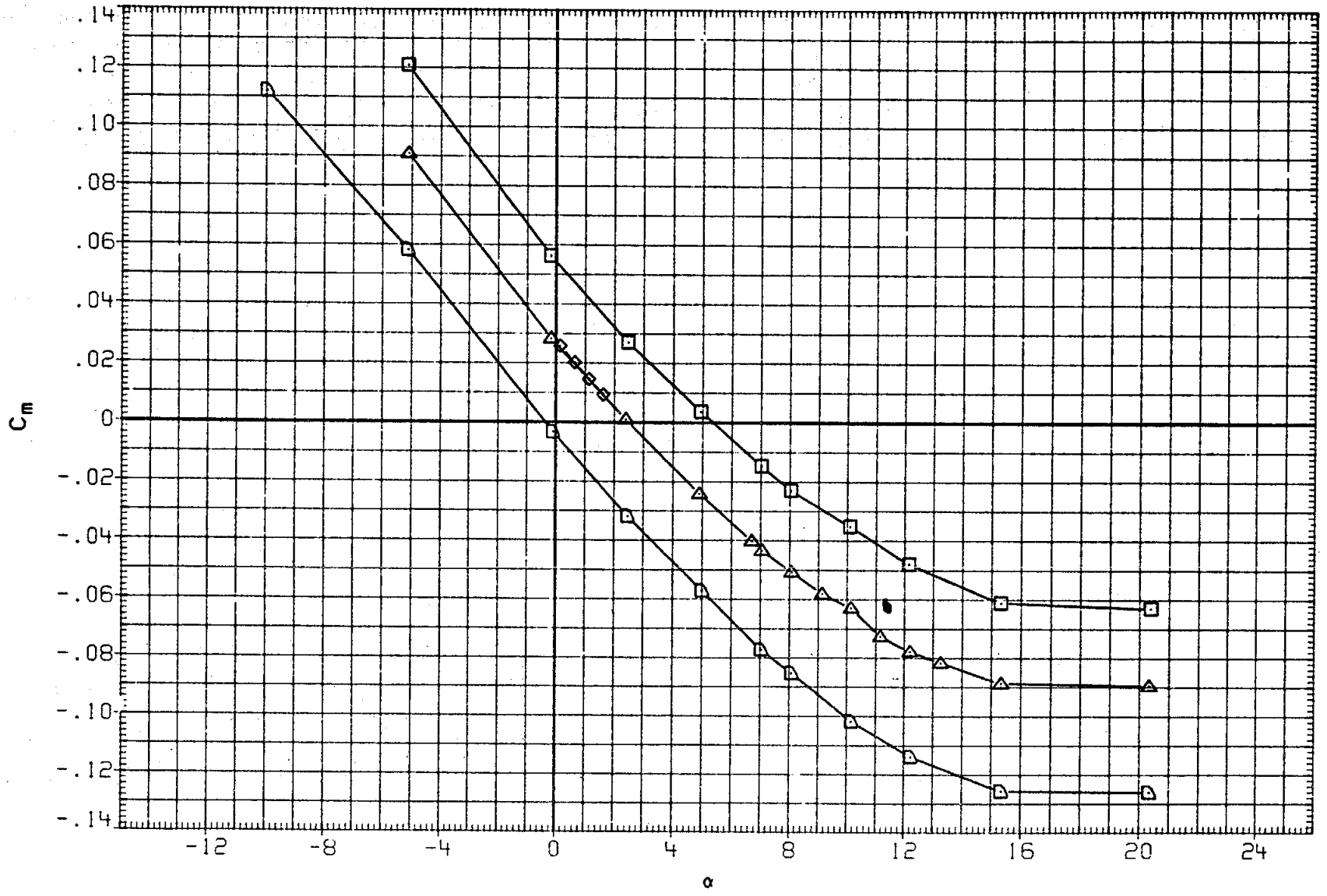

FIGURE 14. BASIC LONGITUDINAL, ELEVON EFFECTS

(I)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN015	○	DATA NOT AVAILABLE	.000	-5.000	.000	.000	25.000	.000	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN021	◺	DATA NOT AVAILABLE	.000	5.000	.000	.000	25.000	.000	.000
R2F026	D	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

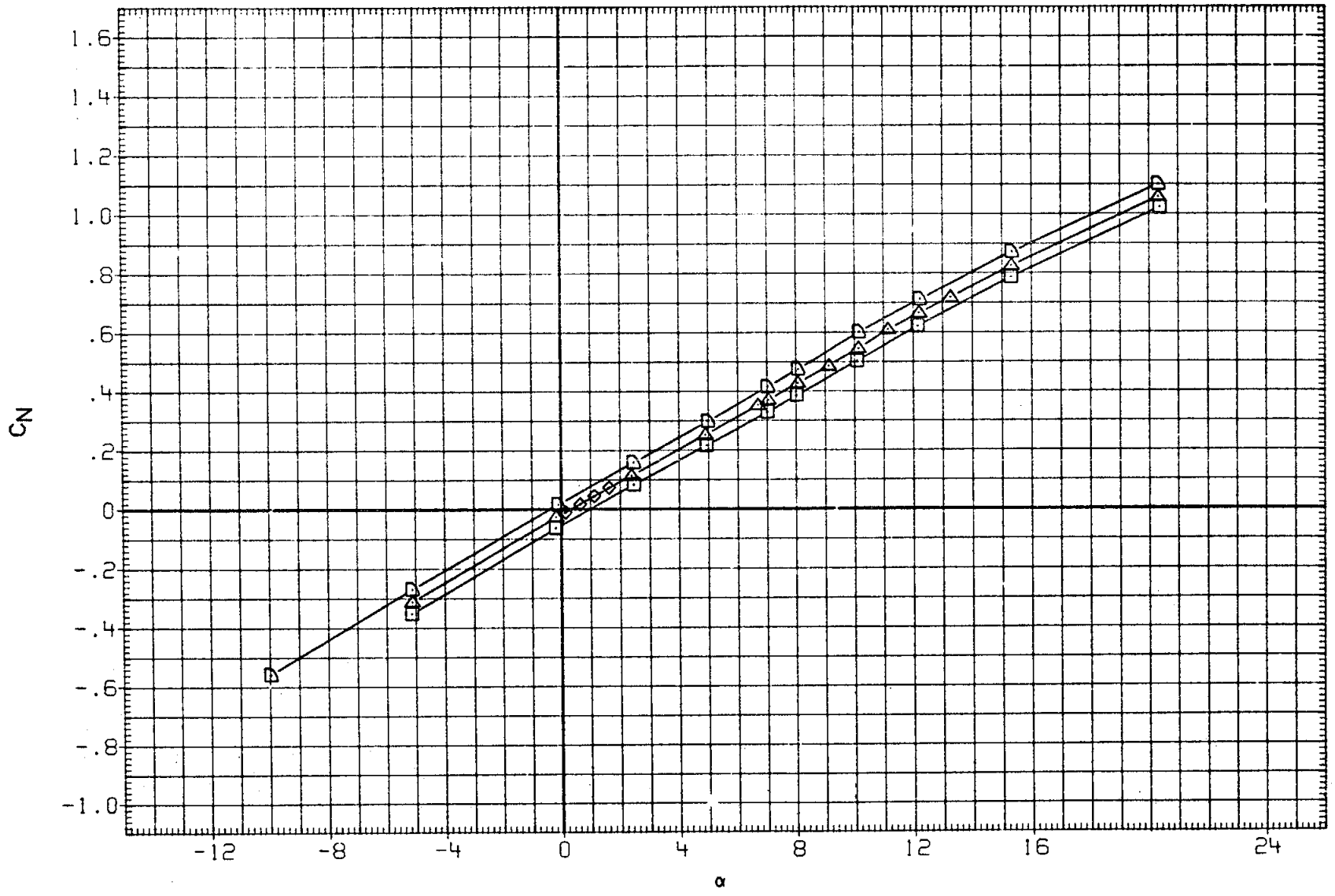

FIGURE 14. BASIC LONGITUDINAL, ELEVON EFFECTS

(I)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN015	○	DATA NOT AVAILABLE	.000	-5.000	.000	.000	25.000	.000	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN021	◁	DATA NOT AVAILABLE	.000	5.000	.000	.000	25.000	.000	.000
R2F026	▷	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

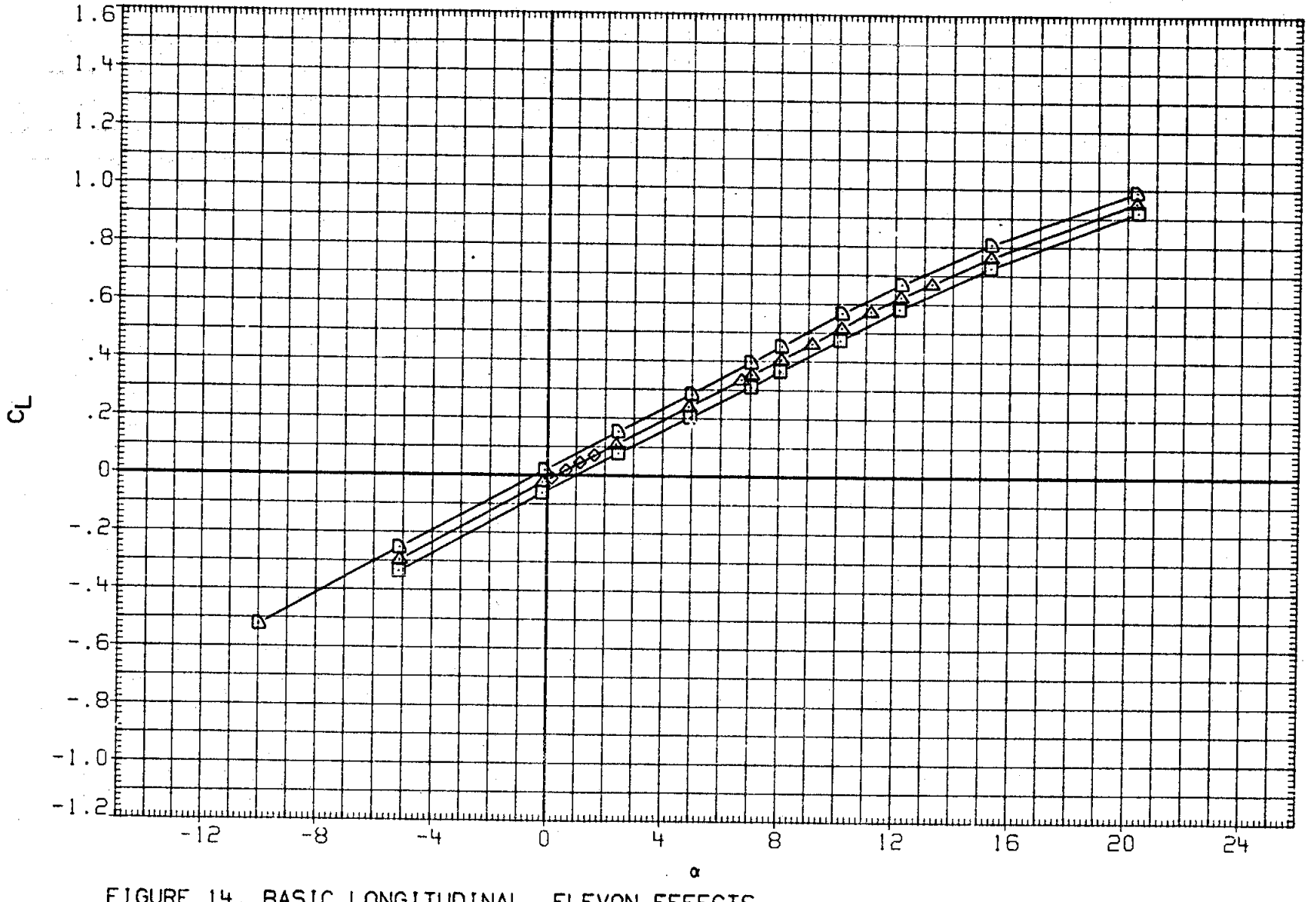

FIGURE 14. BASIC LONGITUDINAL, ELEVON EFFECTS

(I)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN015	○	DATA NOT AVAILABLE	.000	-5.000	.000	.000	25.000	.000	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RKN017	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN021	◺	DATA NOT AVAILABLE	.000	5.000	.000	.000	25.000	.000	.000
R2F026	D	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

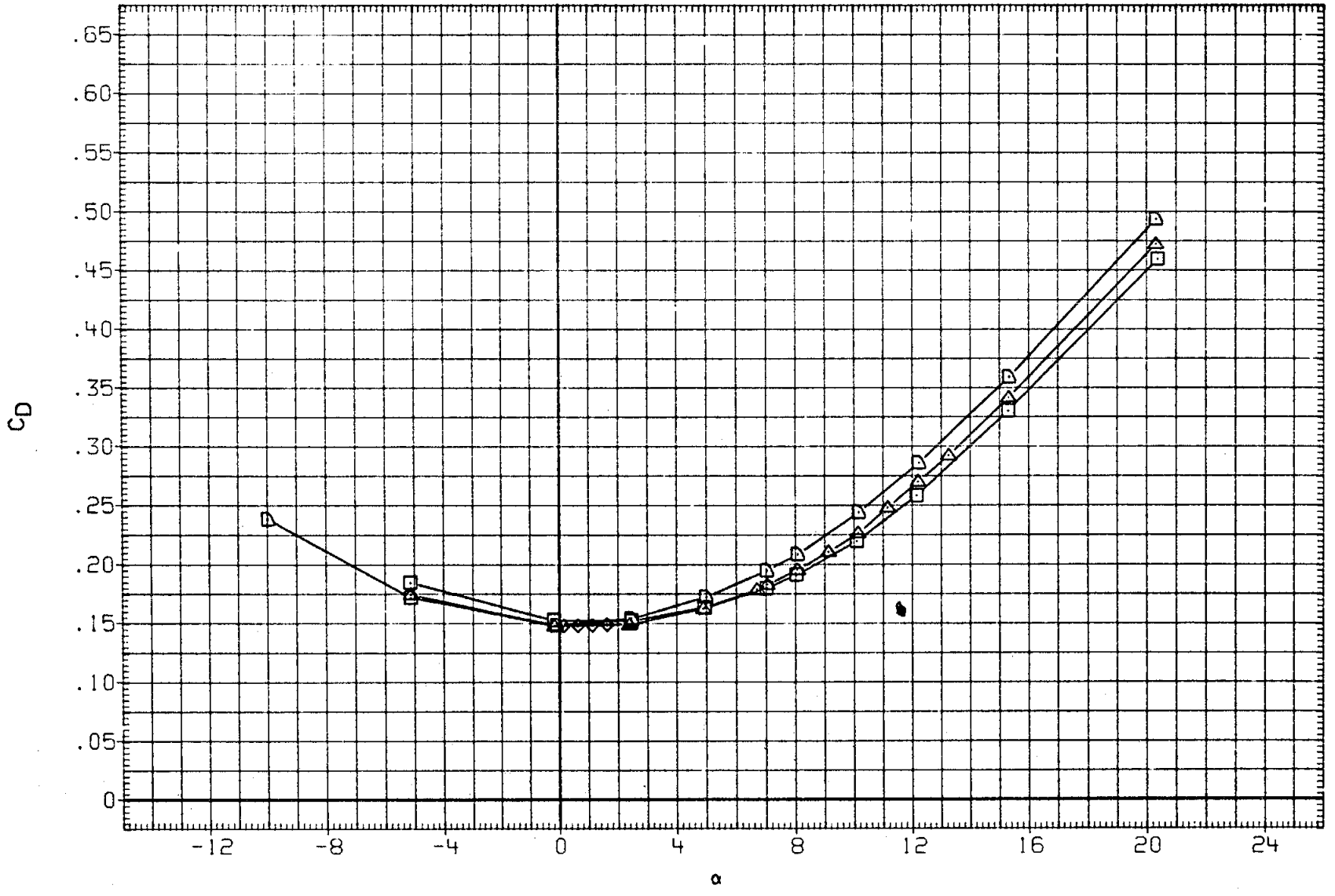

FIGURE 14. BASIC LONGITUDINAL, ELEVON EFFECTS

(I)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION
RKN015	○	DATA NOT AVAILABLE
R2F029	□	AMES 118-1-11 0A145A 01
RKN017	◇	LARC 16FT TWT 326(0A270A) 39-0 ORB.
R2F012	△	AMES 118-1-11 0A145A 01
RKN021	◺	DATA NOT AVAILABLE
R2F026	◻	AMES 118-1-11 0A145A 01

BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
.000	-5.000	.000	.000	25.000	.000	.000
.000	-5.000	.000	.000	25.000	.000	
.000	.000	.000	.000	25.000	.000	.000
.000	.000	.000	.000	25.000	.000	
.000	5.000	.000	.000	25.000	.000	.000
.000	5.000	.000	.000	25.000	.000	

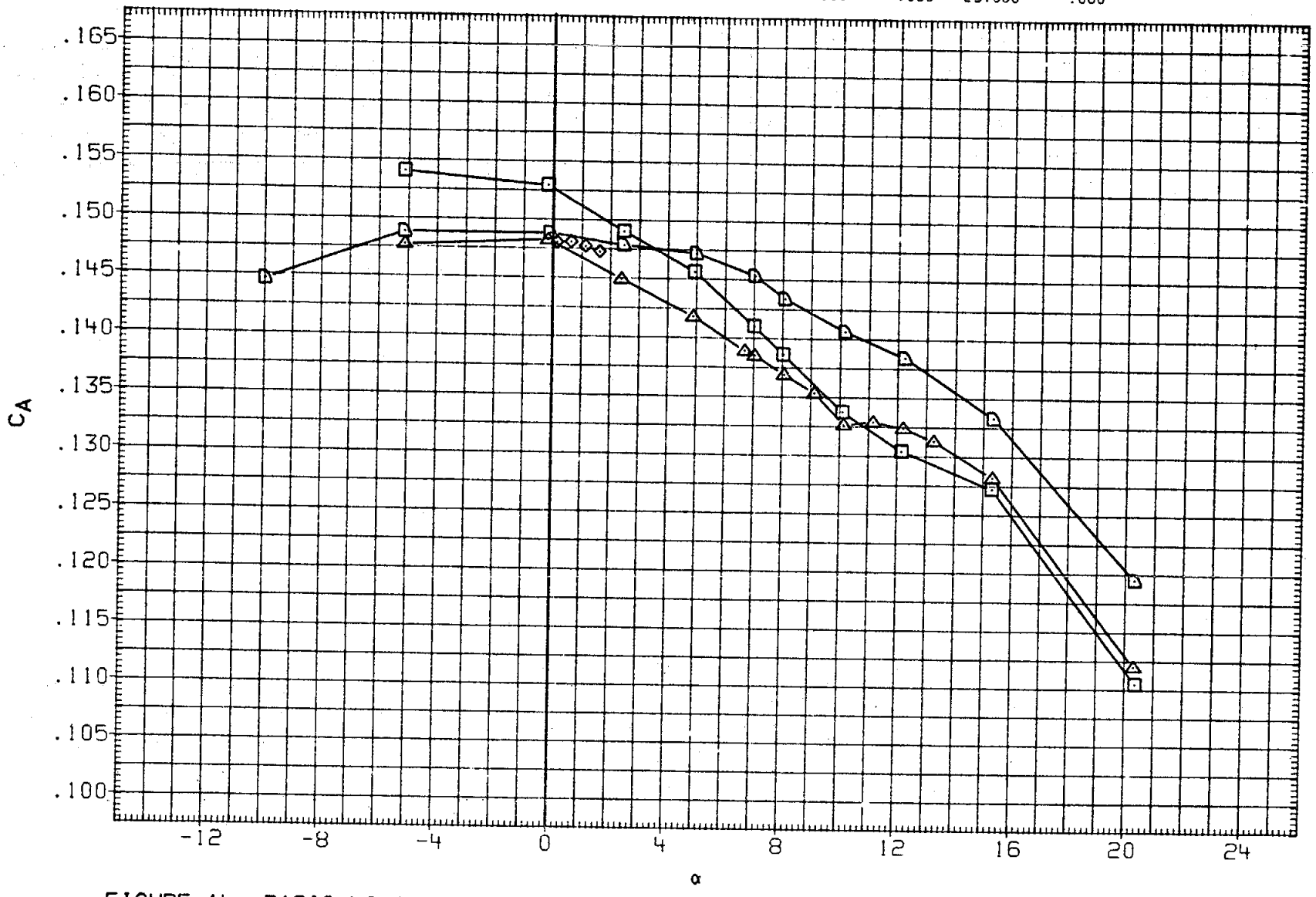

FIGURE 14. BASIC LONGITUDINAL, ELEVON EFFECTS

(I)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN015	○	DATA NOT AVAILABLE	.000	-5.000	.000	.000	25.000	.000	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RKN017	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN021	◺	DATA NOT AVAILABLE	.000	5.000	.000	.000	25.000	.000	.000
R2F026	D	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

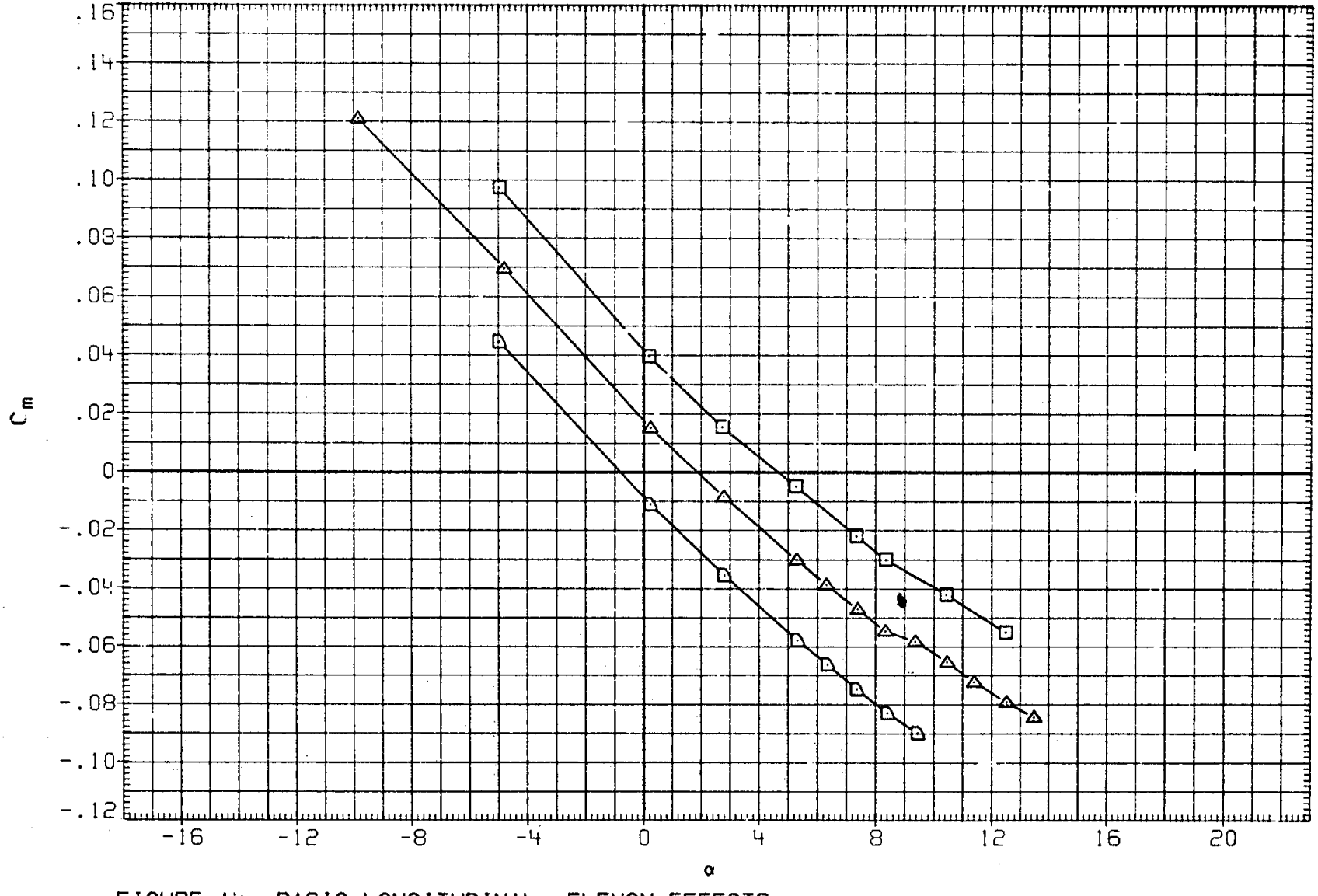

FIGURE 14. BASIC LONGITUDINAL, ELEVON EFFECTS

(J)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION
RKN015	○	DATA NOT AVAILABLE
R2F029	□	AMES 118-1-11 OA145A 01
RKN017	◇	DATA NOT AVAILABLE
R2F012	△	AMES 118-1-11 OA145A 01
RKN021	◺	DATA NOT AVAILABLE
R2F026	D	AMES 118-1-11 OA145A 01

BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
.000	-5.000	.000	.000	25.000	.000	.000
.000	-5.000	.000	.000	25.000	.000	
.000	.000	.000	.000	25.000	.000	.000
.000	.000	.000	.000	25.000	.000	
.000	5.000	.000	.000	25.000	.000	.000
.000	5.000	.000	.000	25.000	.000	

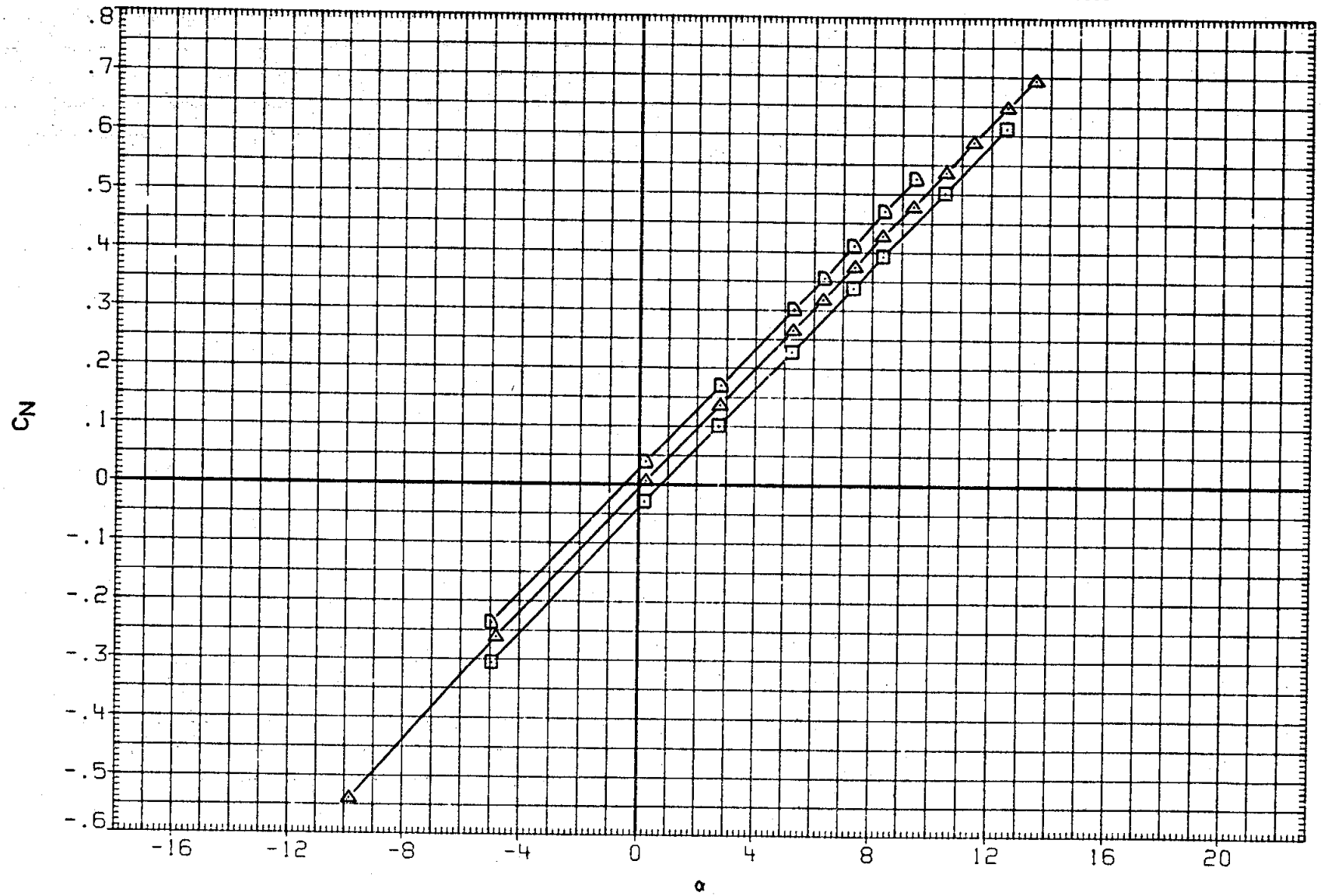

FIGURE 14. BASIC LONGITUDINAL, ELEVON EFFECTS

(J)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN015	○	DATA NOT AVAILABLE	.000	-5.000	.000	.000	25.000	.000	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RKN017	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN021	▷	DATA NOT AVAILABLE	.000	5.000	.000	.000	25.000	.000	.000
R2F026	D	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

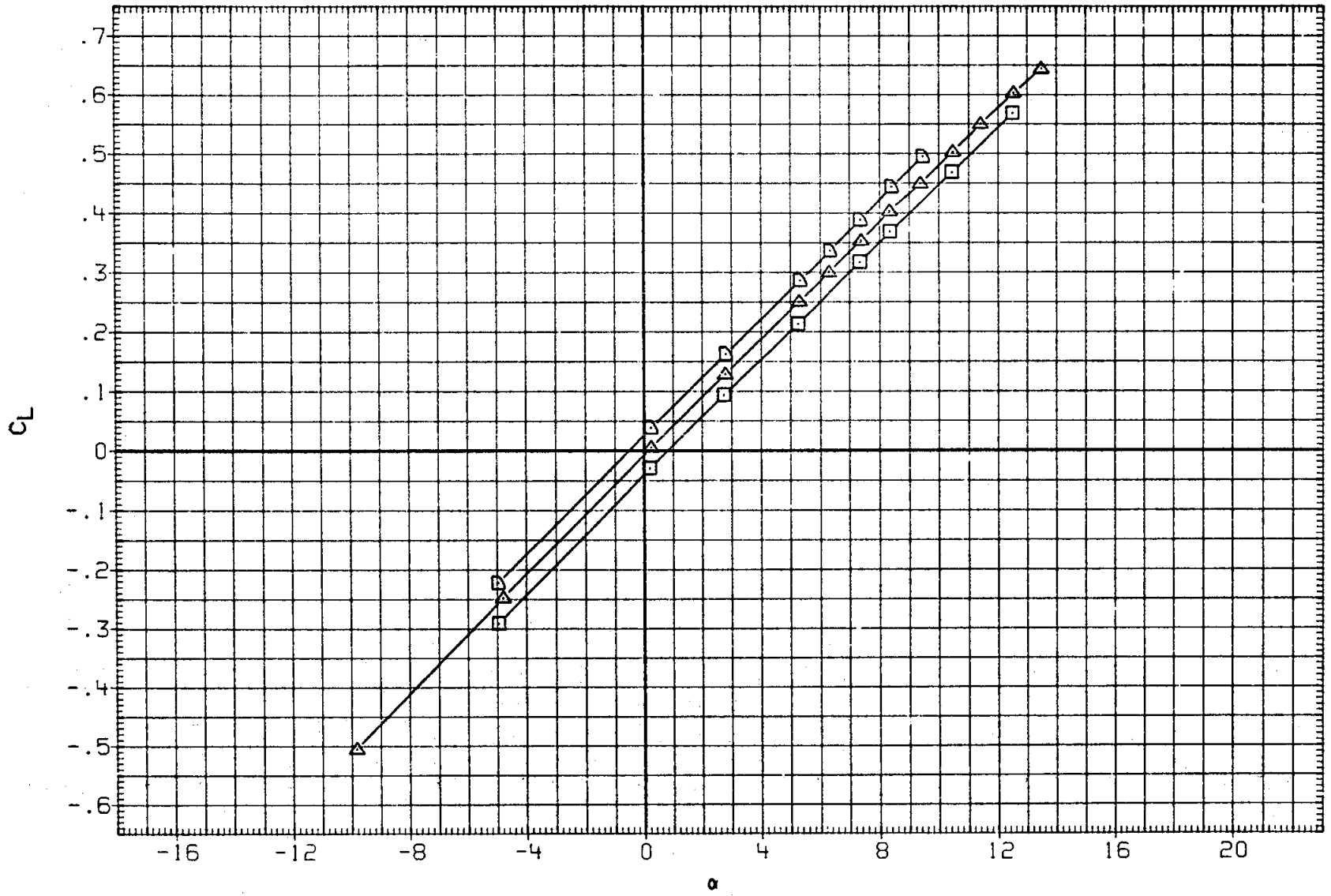

FIGURE 14. BASIC LONGITUDINAL, ELEVON EFFECTS

(J)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN015	○	DATA NOT AVAILABLE	.000	-5.000	.000	.000	25.000	.000	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RKN017	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN021	◺	DATA NOT AVAILABLE	.000	5.000	.000	.000	25.000	.000	.000
R2F026	D	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

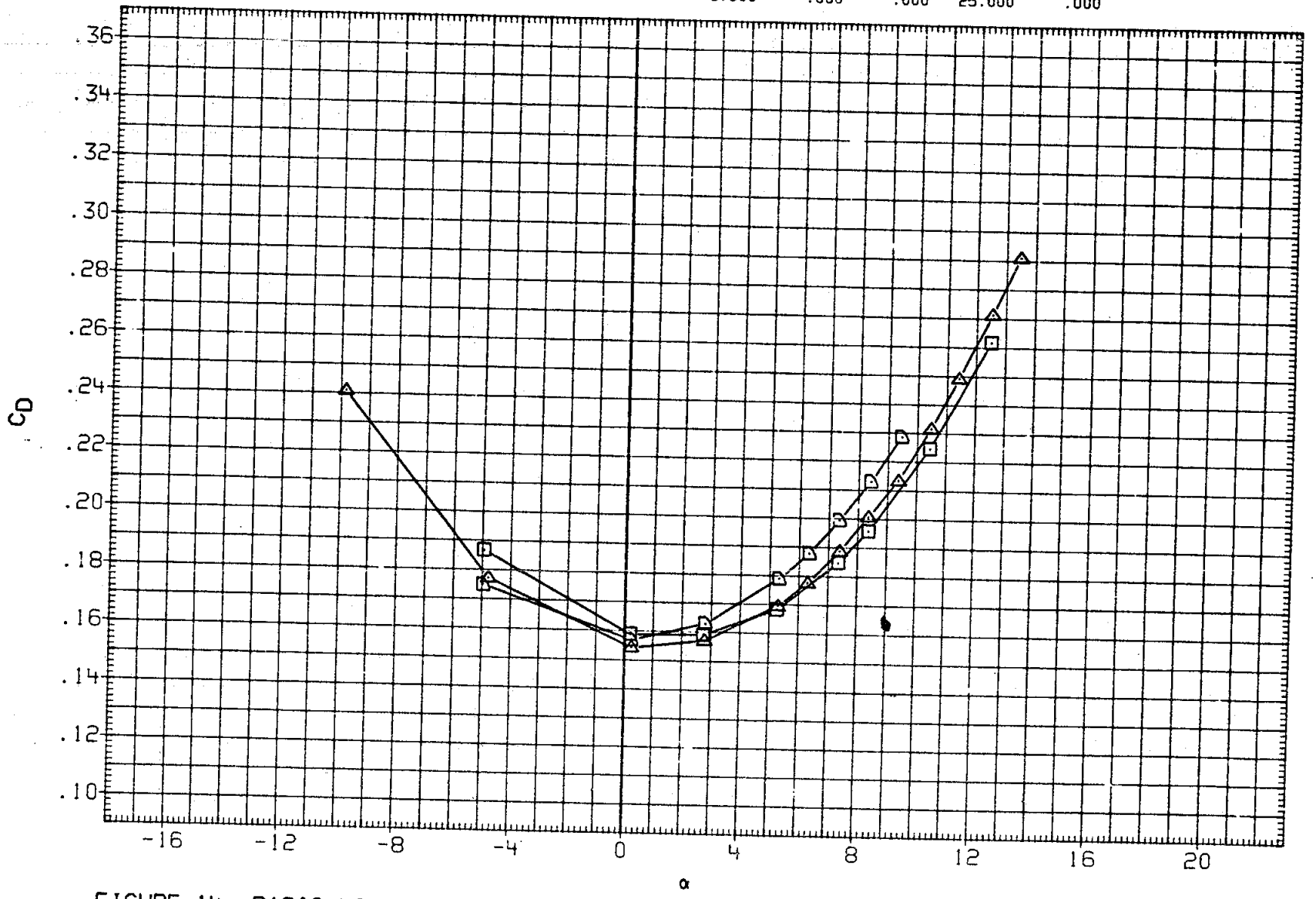

FIGURE 14. BASIC LONGITUDINAL, ELEVON EFFECTS

(J)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN015	○	DATA NOT AVAILABLE	.000	-5.000	.000	.000	25.000	.000	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RKN017	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKN021	◺	DATA NOT AVAILABLE	.000	5.000	.000	.000	25.000	.000	.000
R2F026	D	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

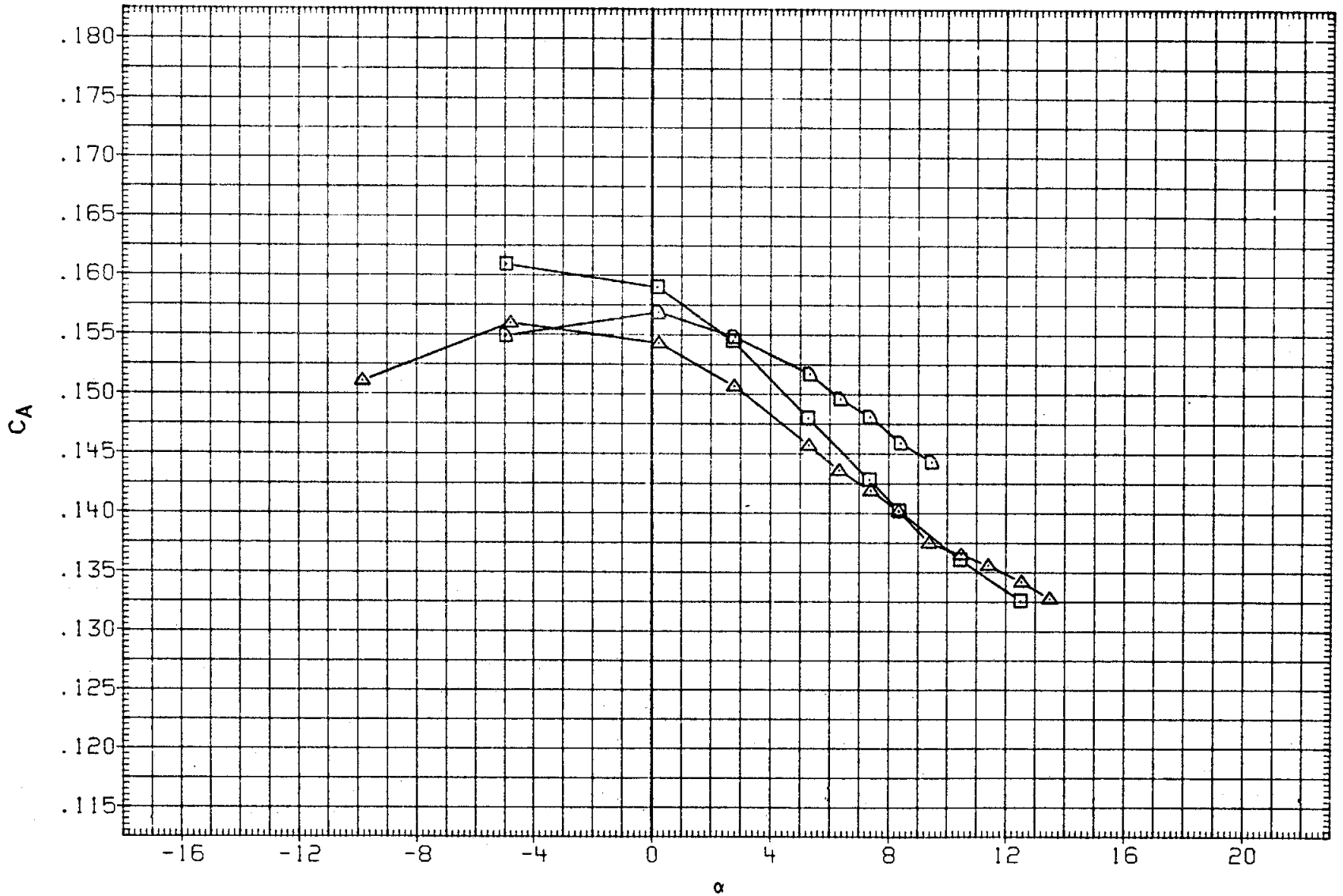

FIGURE 14. BASIC LONGITUDINAL, ELEVON EFFECTS

(J)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0005	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.790	.000	.000	25.500	-.030	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0006	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
R2F026	D	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

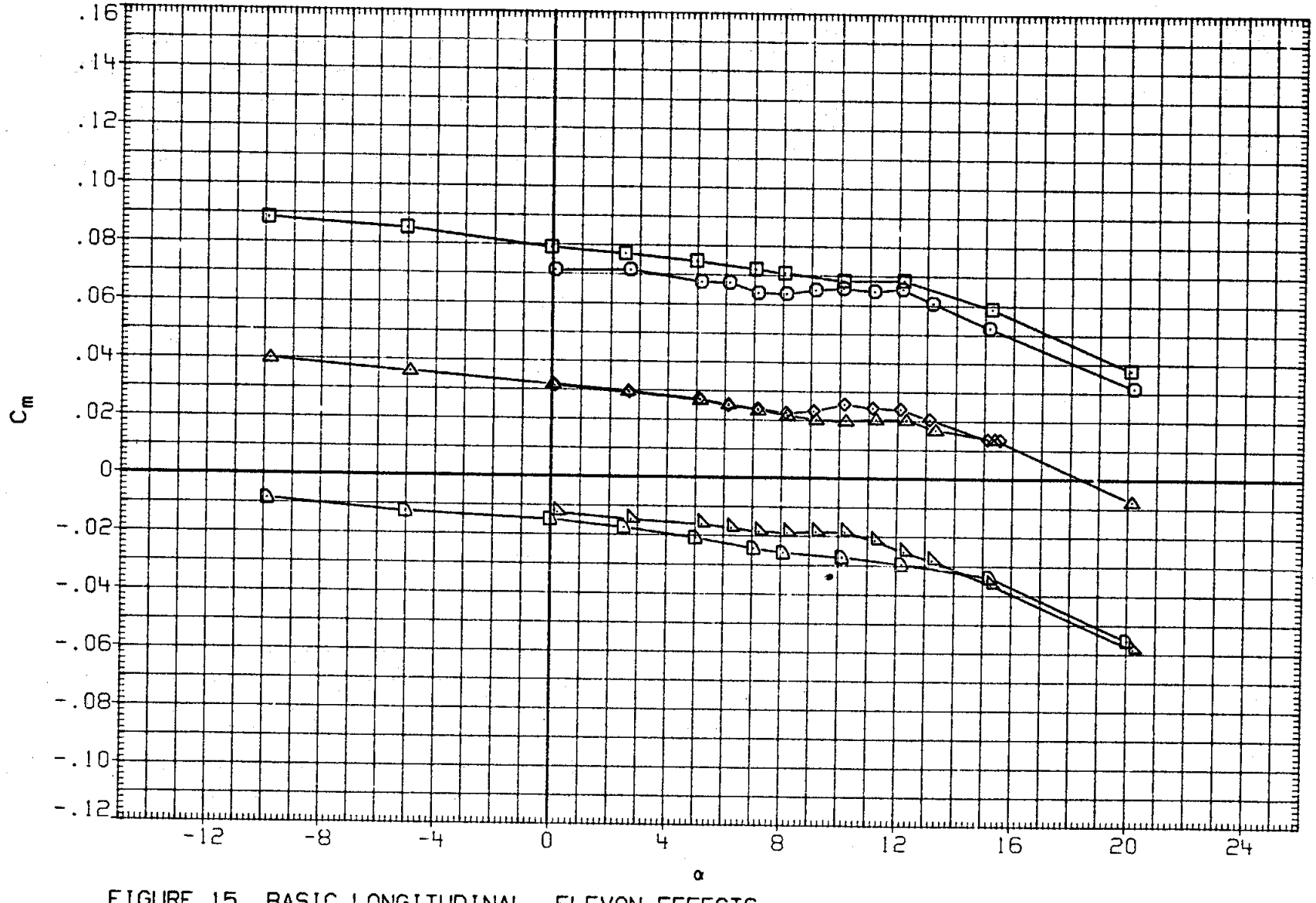

FIGURE 15. BASIC LONGITUDINAL, ELEVON EFFECTS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0005	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.790	.000	.000	25.500	-.030	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0006	◁	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
R2F026	▷	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

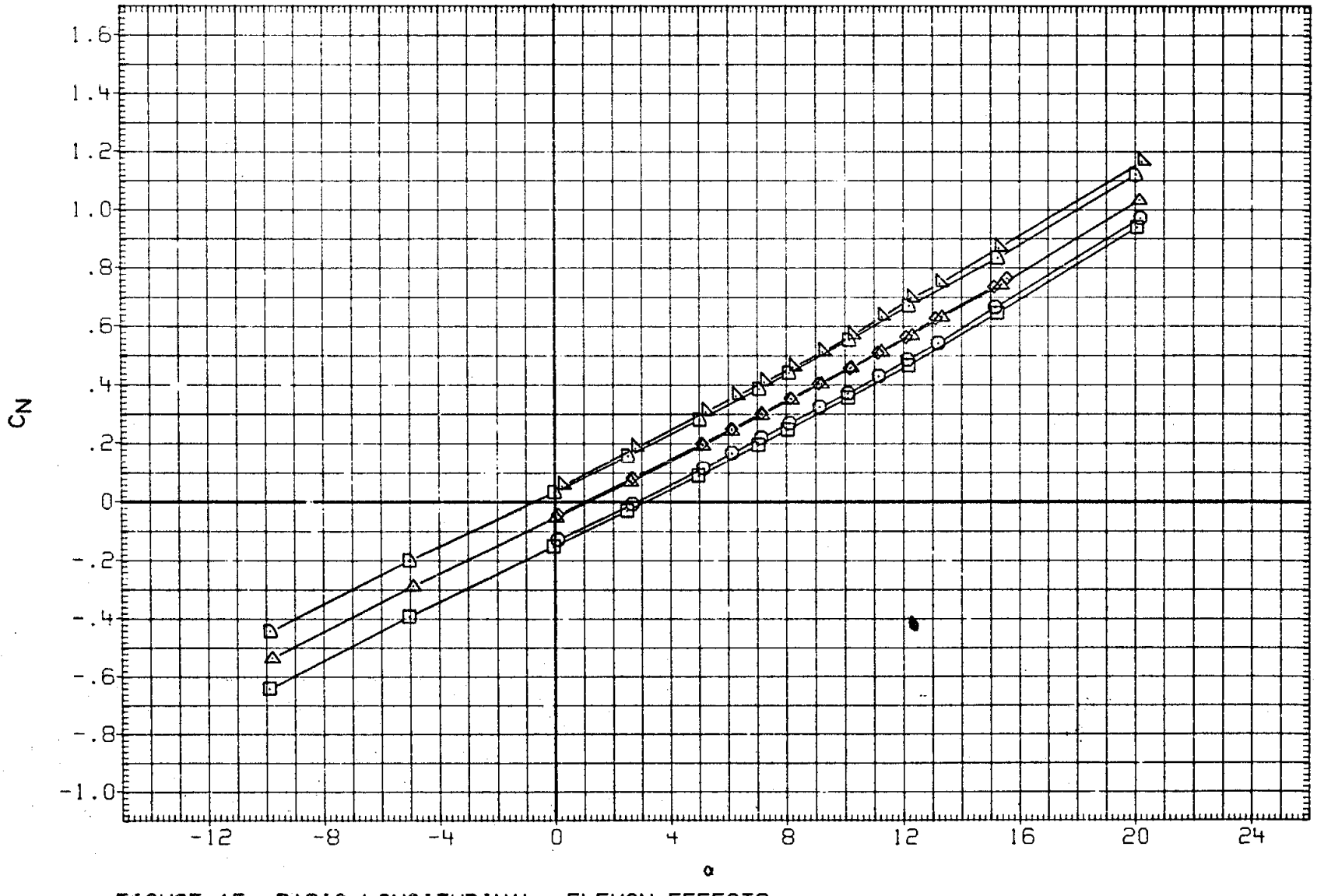

FIGURE 15. BASIC LONGITUDINAL, ELEVON EFFECTS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0005	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.790	.000	.000	25.500	-.030	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0006	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
R2F026	◻	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

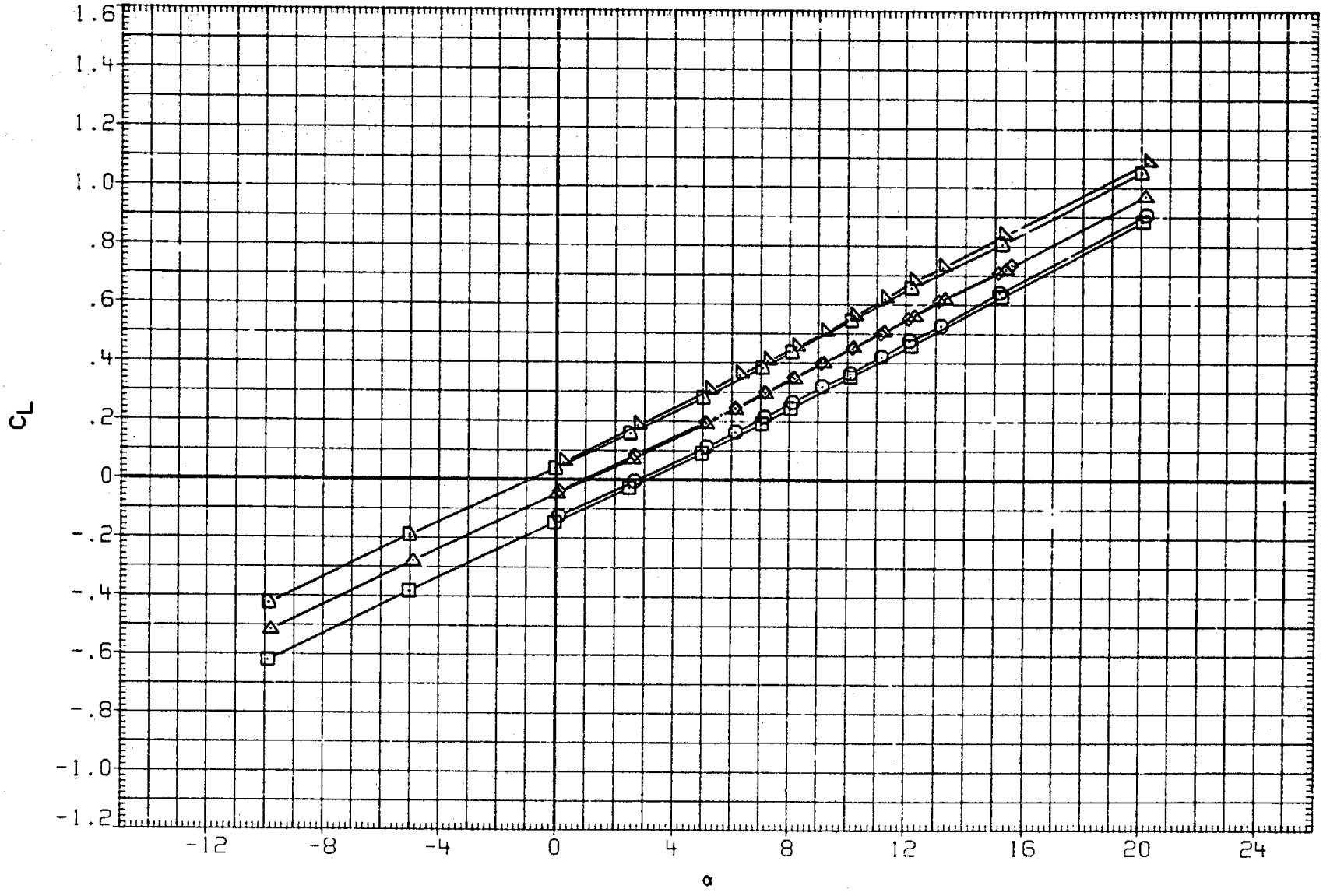

FIGURE 15. BASIC LONGITUDINAL, ELEVON EFFECTS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0005	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.790	.000	.000	25.500	-.030	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0006	◁	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
R2F026	D	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

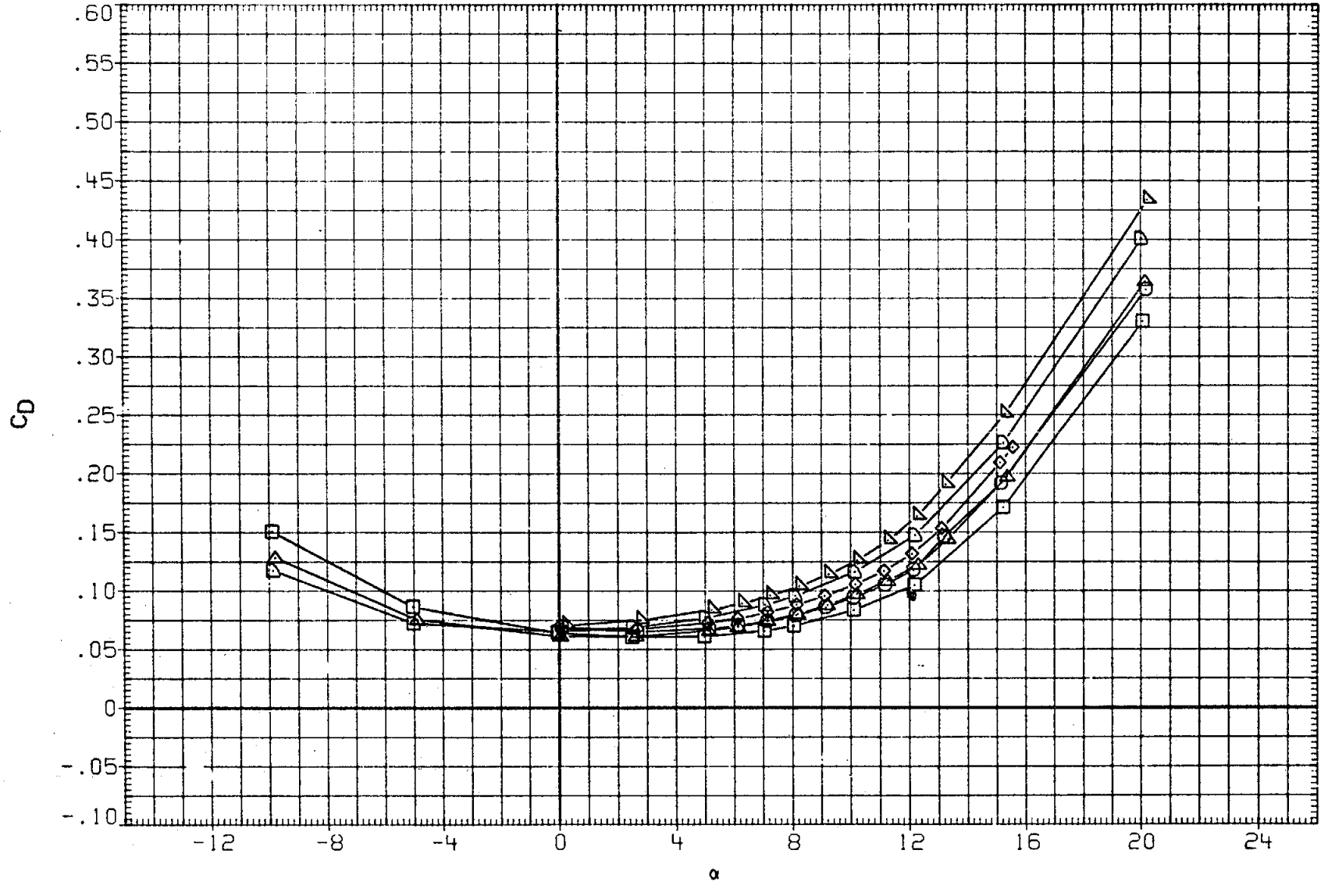

FIGURE 15. BASIC LONGITUDINAL, ELEVON EFFECTS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0005	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.790	.000	.000	25.500	-.030	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0006	◁	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
R2F026	D	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

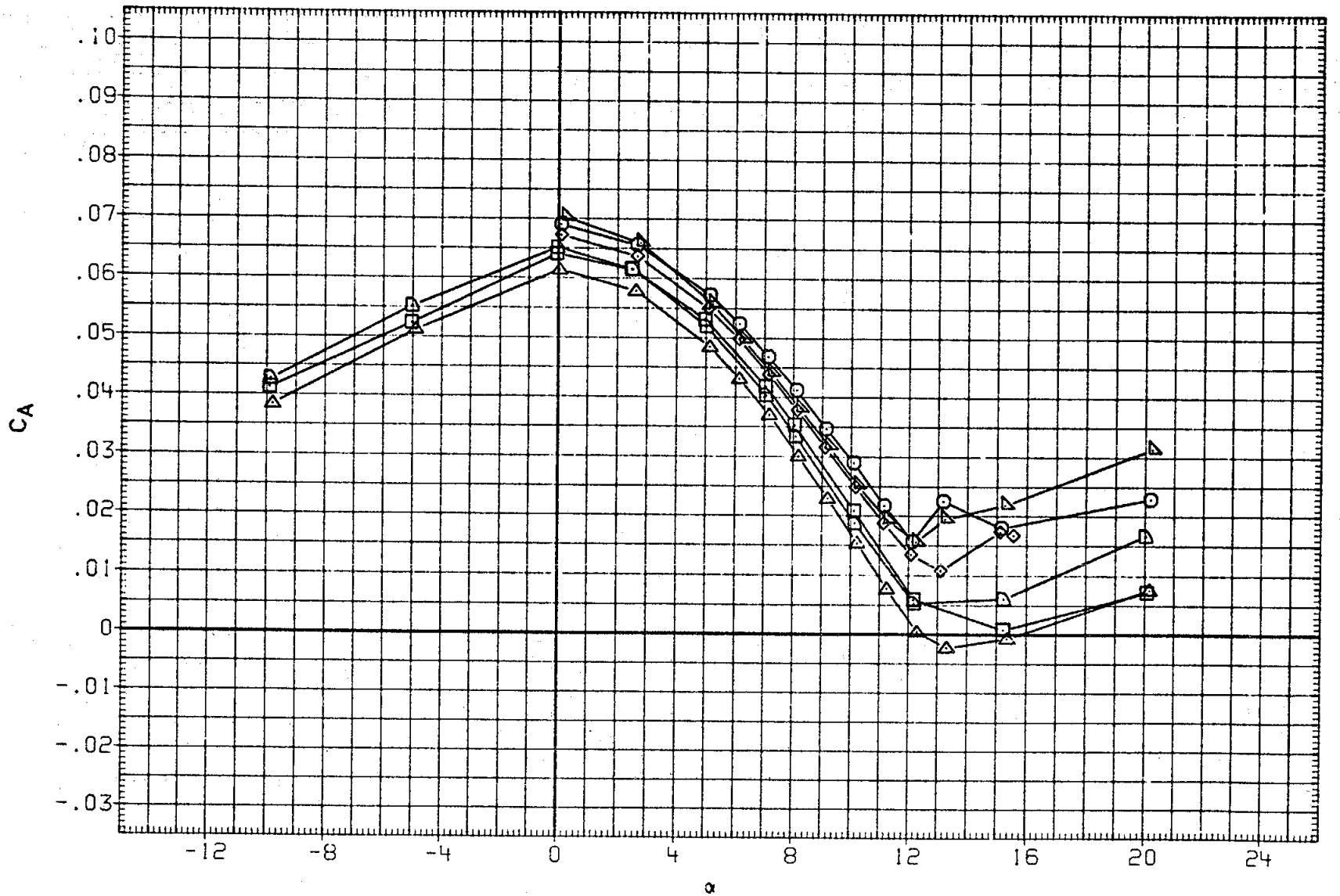

FIGURE 15. BASIC LONGITUDINAL, ELEVON EFFECTS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0005	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.790	.000	.000	25.500	-.030	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0006	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
R2F026	◻	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

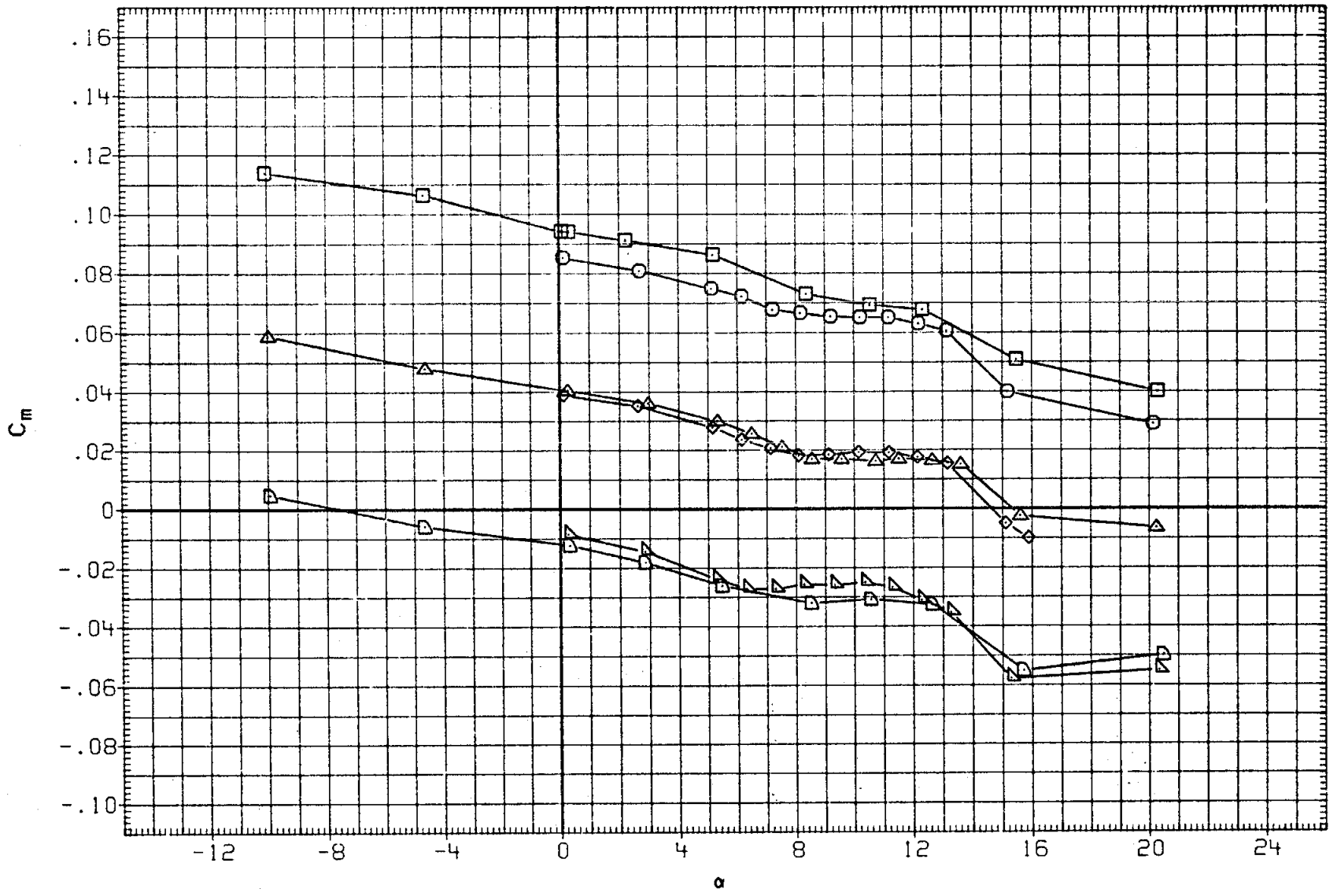

FIGURE 15. BASIC LONGITUDINAL, ELEVON EFFECTS

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0005	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.790	.000	.000	25.500	-.030	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0006	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
R2F026	◗	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

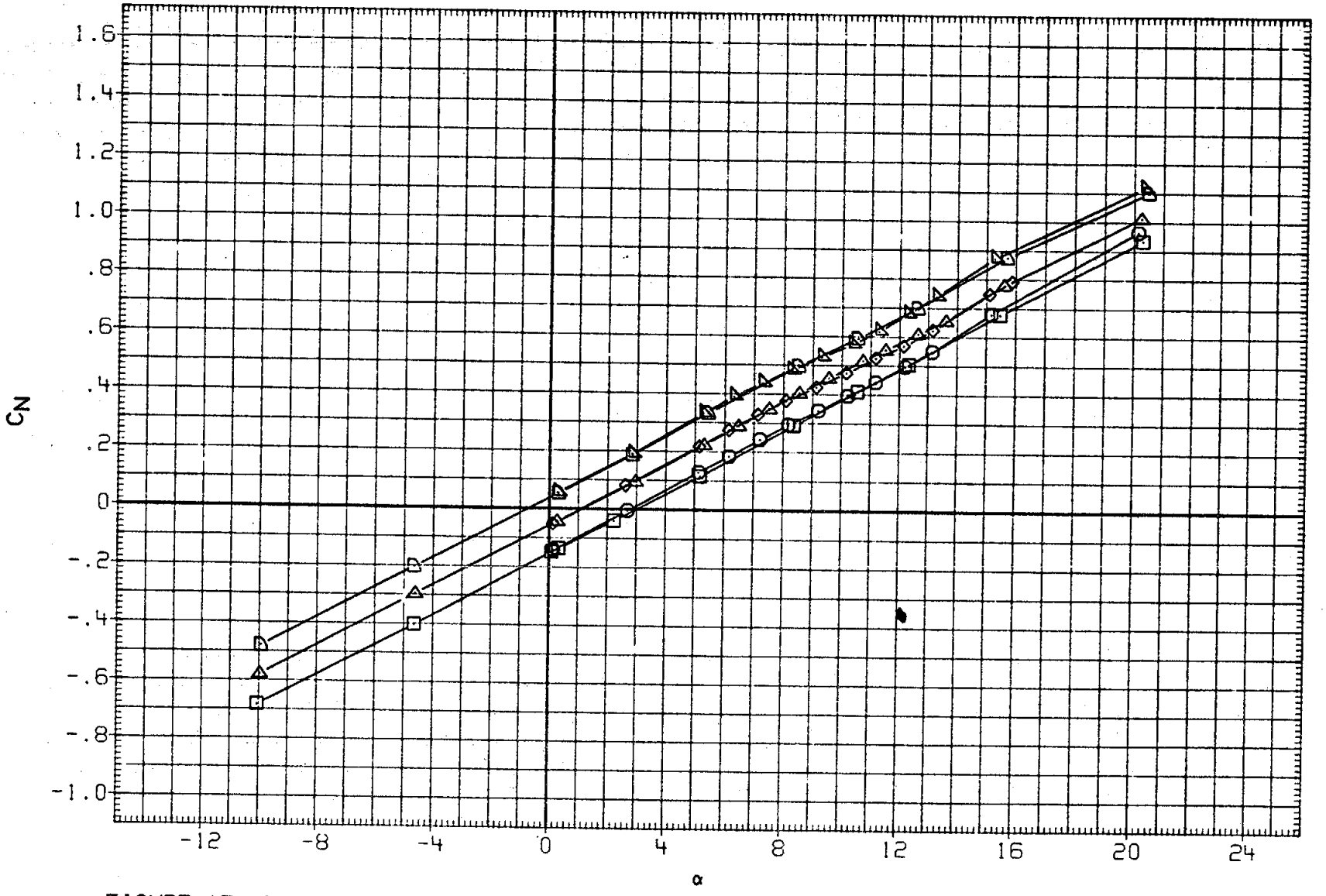

FIGURE 15. BASIC LONGITUDINAL, ELEVON EFFECTS

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0005	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.790	.000	.000	25.500	-.030	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0006	◁	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
R2F026	▷	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

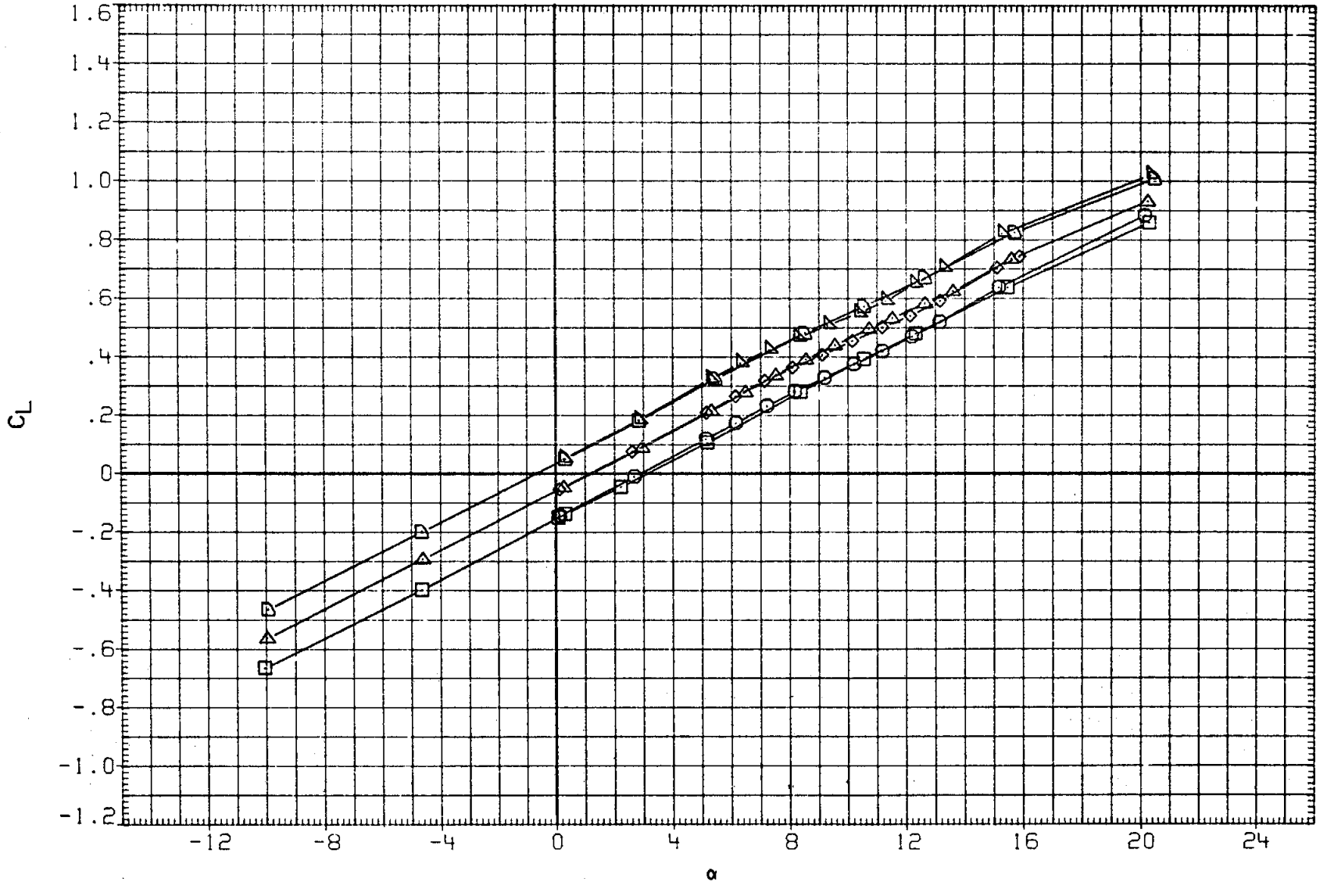

FIGURE 15. BASIC LONGITUDINAL, ELEVON EFFECTS

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION
RK0005	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F029	□	AMES 11B-1-11 OA145A 01
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F012	△	AMES 11B-1-11 OA145A 01
RK0006	◁	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F026	▷	AMES 11B-1-11 OA145A 01

BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
.000	-4.790	.000	.000	25.500	-.030	.000
.000	-5.000	.000	.000	25.000	.000	
.000	.000	.000	.000	25.500	-.030	.000
.000	.000	.000	.000	25.000	.000	
.000	4.920	-.010	.000	25.500	-.030	.000
.000	5.000	.000	.000	25.000	.000	

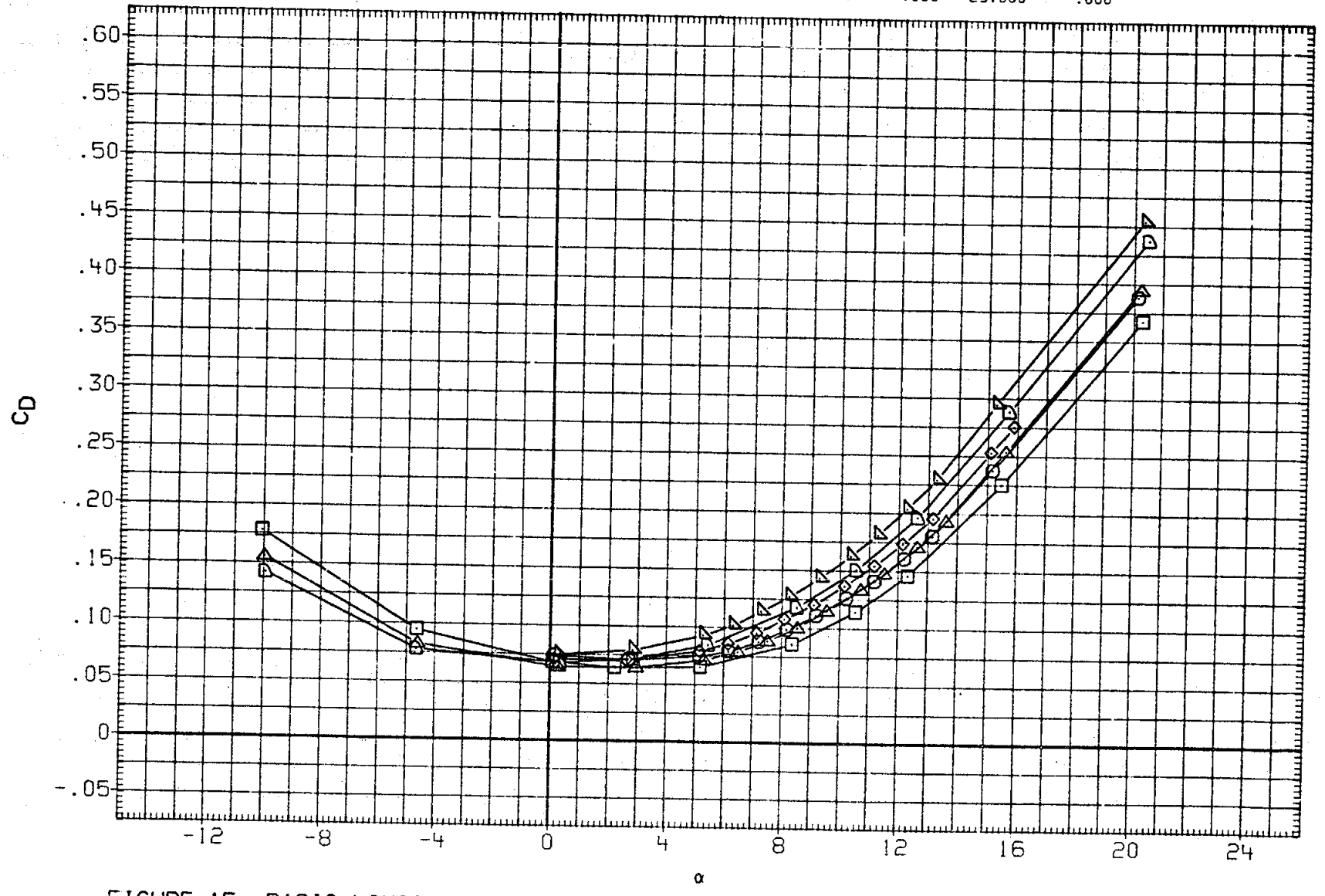

FIGURE 15. BASIC LONGITUDINAL, ELEVON EFFECTS

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0005	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.790	.000	.000	25.500	-.030	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0006	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
R2F026	⏢	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

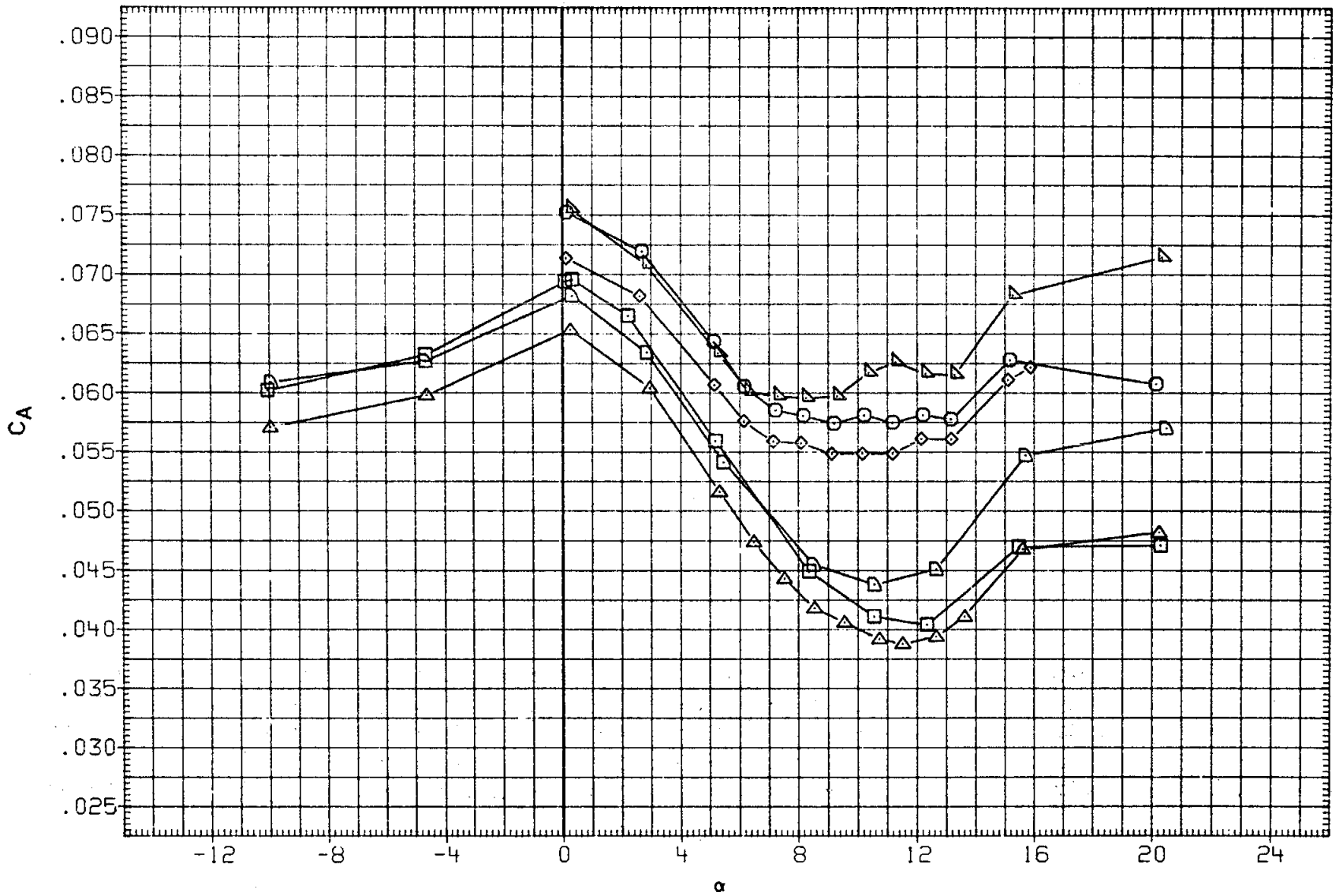

FIGURE 15. BASIC LONGITUDINAL, ELEVON EFFECTS

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0005	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.790	.000	.000	25.500	-.030	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0006	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
R2F026	D	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

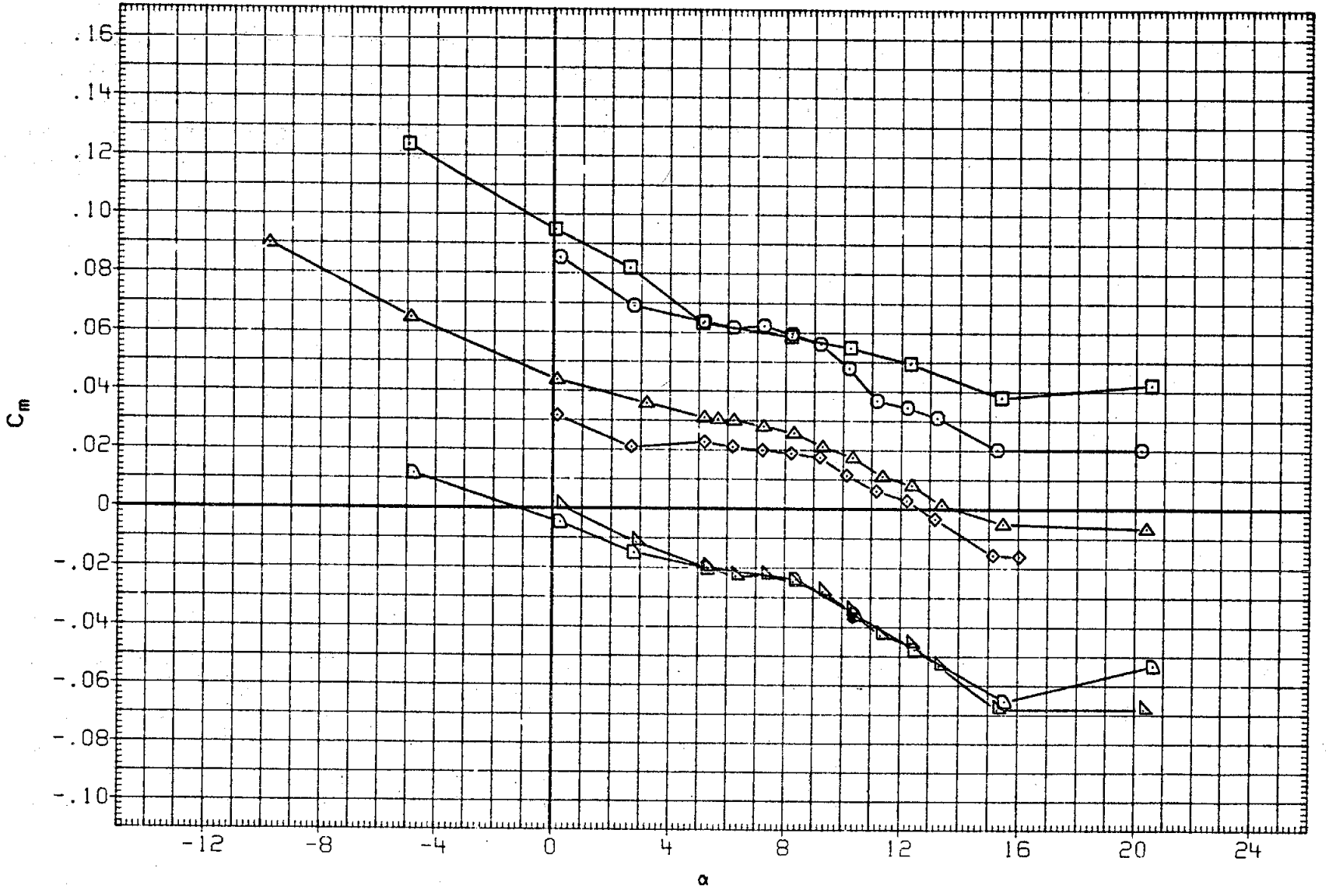

FIGURE 15. BASIC LONGITUDINAL, ELEVON EFFECTS

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0005	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.790	.000	.000	25.500	-.030	.000
P2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0006	⊿	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
R2F026	⊿	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

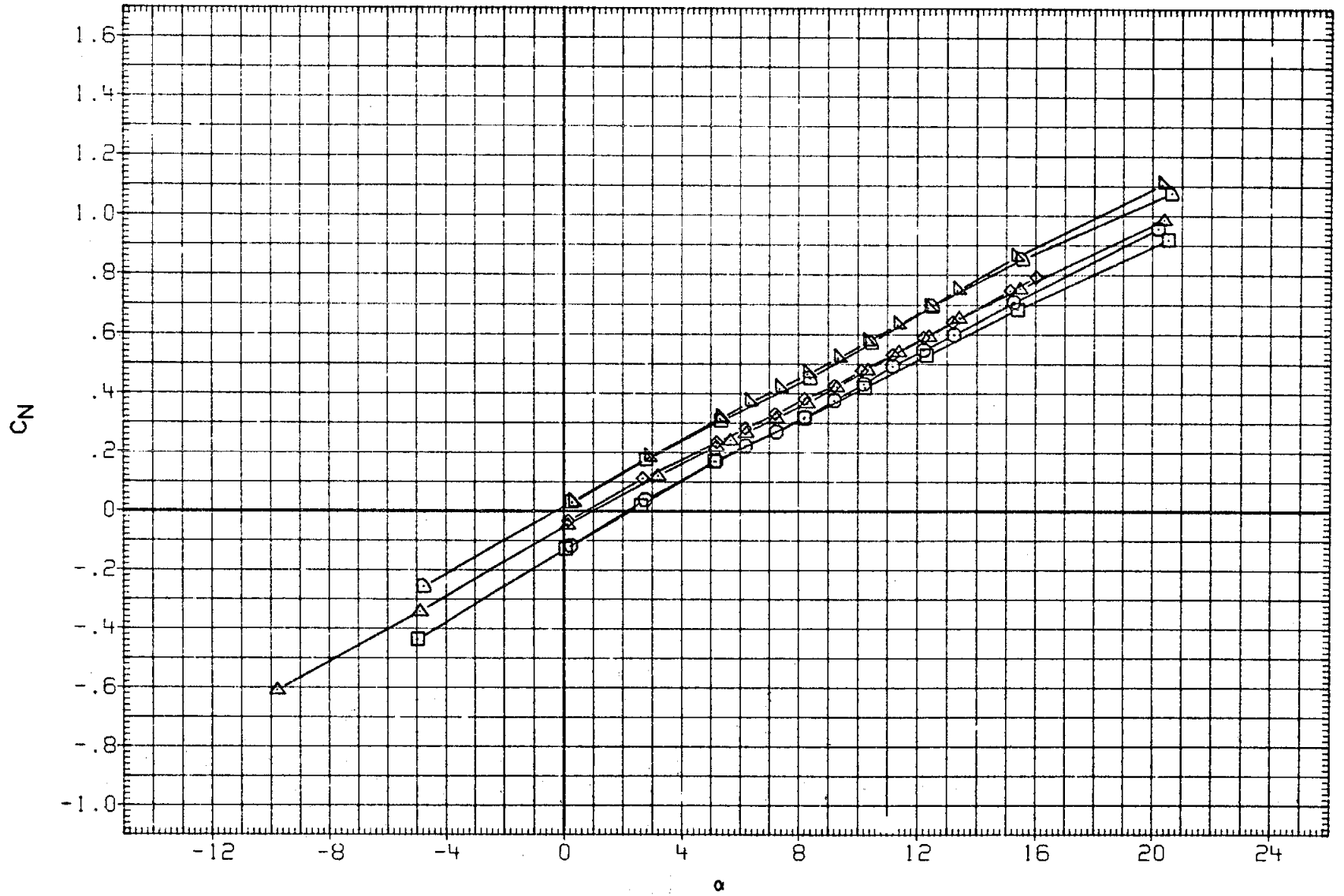

FIGURE 15. BASIC LONGITUDINAL, ELEVON EFFECTS

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION
RK0005	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F029	□	AMES 118-1-11 OA145A 01
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F012	△	AMES 118-1-11 OA145A 01
RK0006	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F026	◗	AMES 118-1-11 OA145A 01

BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
.000	-4.790	.000	.000	25.500	-.030	.000
.000	-5.000	.000	.000	25.000	.000	
.000	.000	.000	.000	25.500	-.030	.000
.000	.000	.000	.000	25.000	.000	
.000	4.920	-.010	.000	25.500	-.030	.000
.000	5.000	.000	.000	25.000	.000	

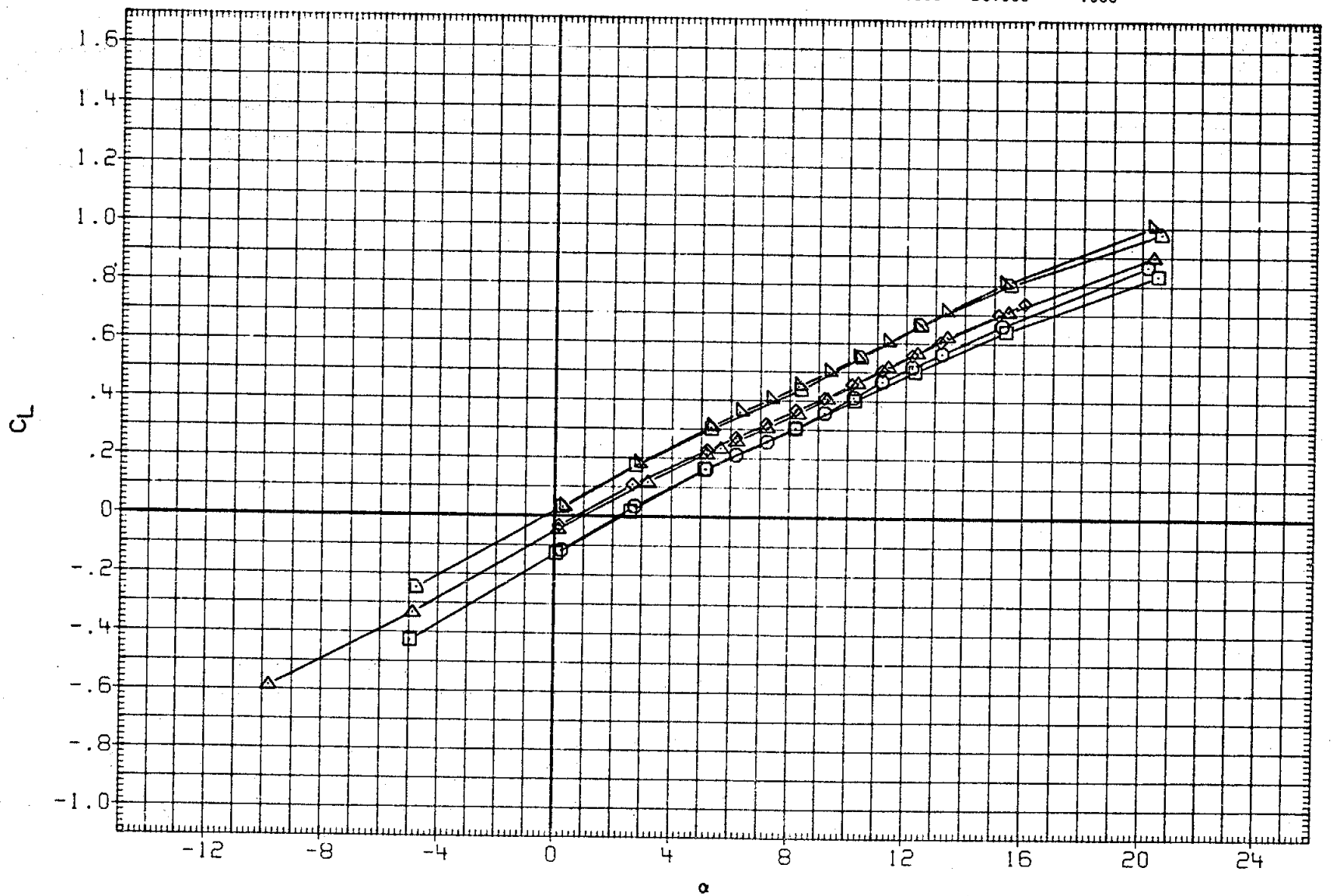

FIGURE 15. BASIC LONGITUDINAL, ELEVON EFFECTS

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0005	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.790	.000	.000	25.500	-.030	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0006	◁	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
R2F026	▷	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

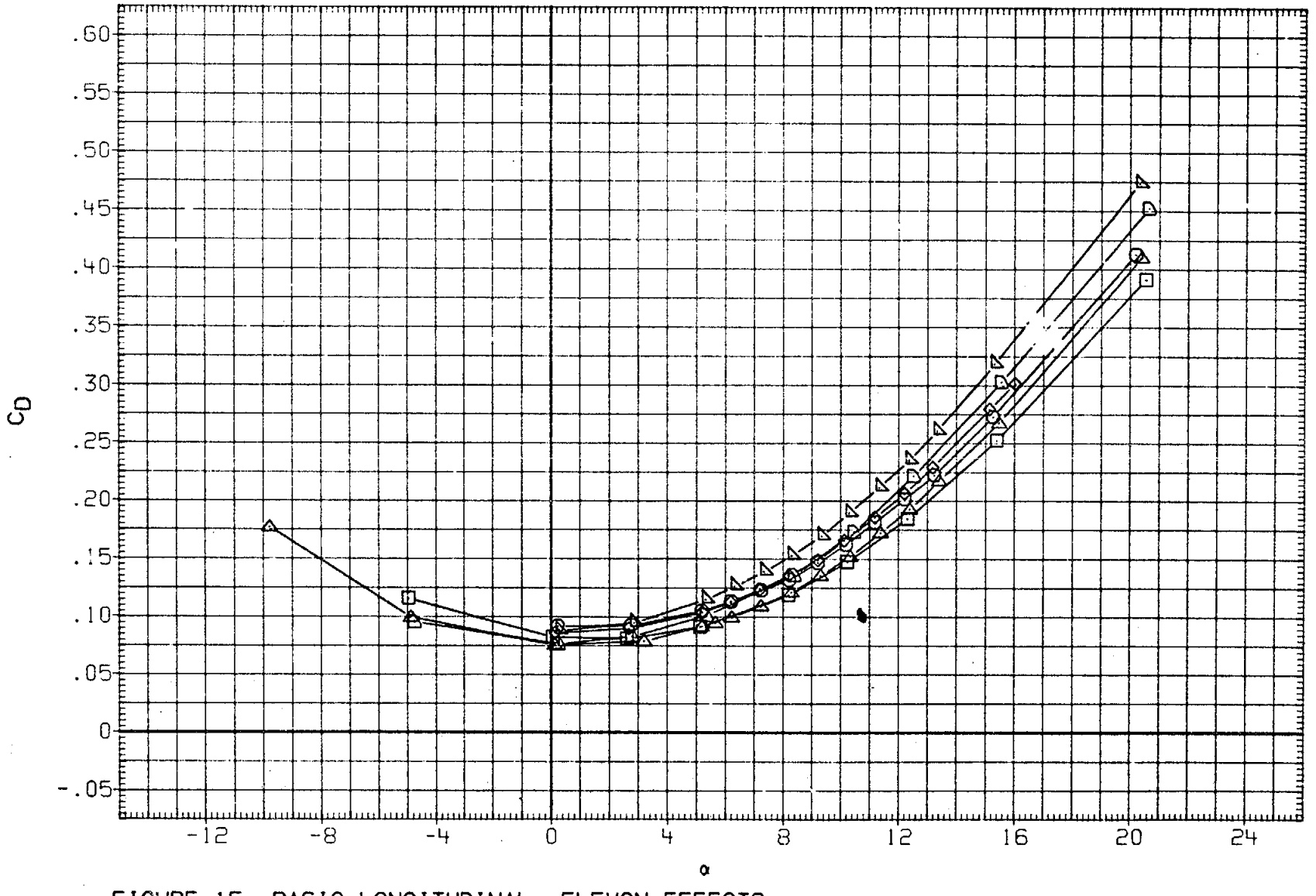

FIGURE 15. BASIC LONGITUDINAL, ELEVON EFFECTS

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0005	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.790	.000	.000	25.500	-.030	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0006	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
R2F026	◺	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

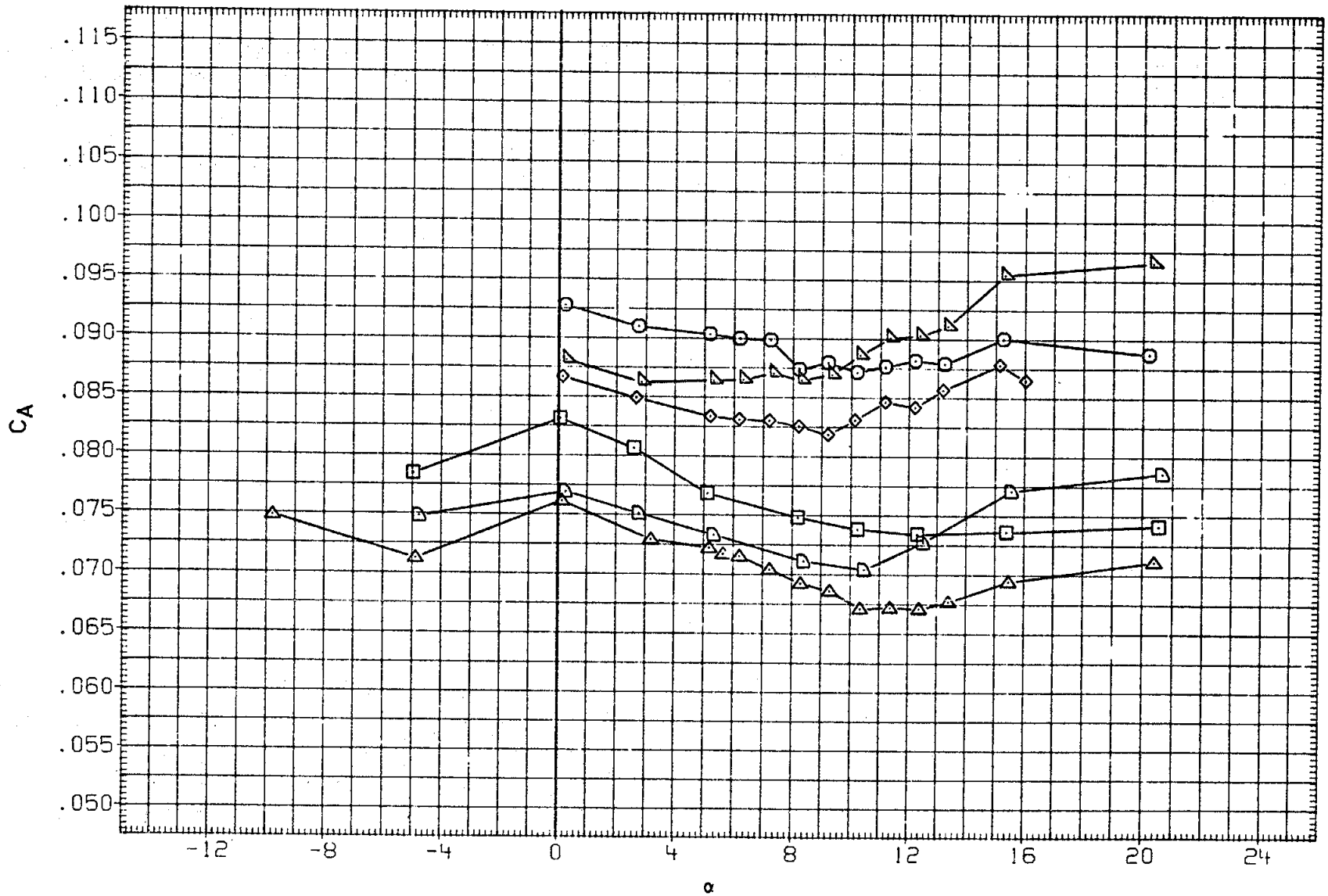

FIGURE 15. BASIC LONGITUDINAL, ELEVON EFFECTS

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0005	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.790	.000	.000	25.500	-.030	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0006	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
R2F026	D	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

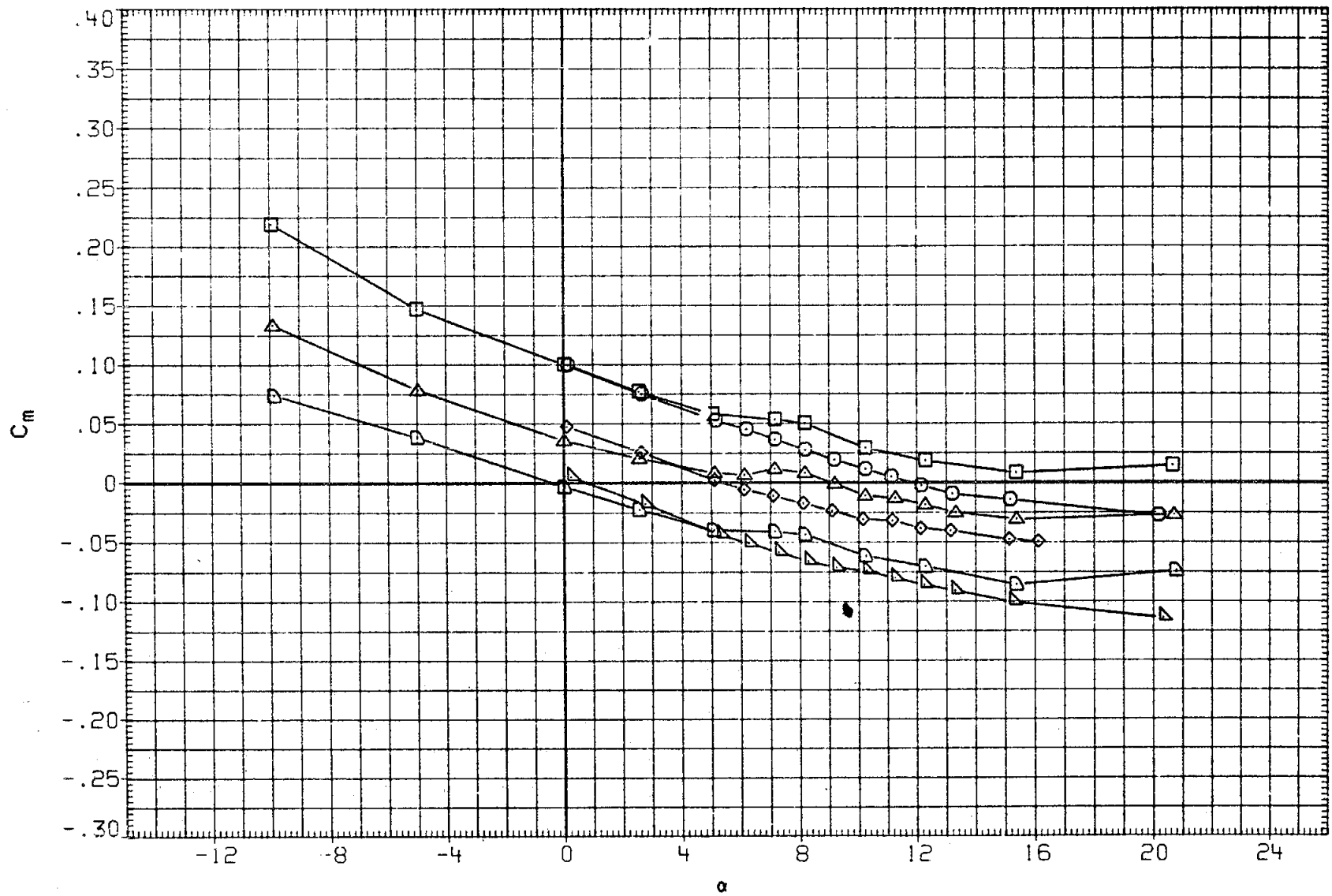

FIGURE 15. BASIC LONGITUDINAL, ELEVON EFFECTS

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION
RK0005	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F029	□	AMES 118-1-11 OA145A 01
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F012	△	AMES 118-1-11 OA145A 01
RK0006	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F026	D	AMES 118-1-11 OA145A 01

BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
.000	-4.790	.000	.000	25.500	-.030	.000
.000	-5.000	.000	.000	25.000	.000	
.000	.000	.000	.000	25.500	-.030	.000
.000	.000	.000	.000	25.000	.000	
.000	4.920	-.010	.000	25.500	-.030	.000
.000	5.000	.000	.000	25.000	.000	

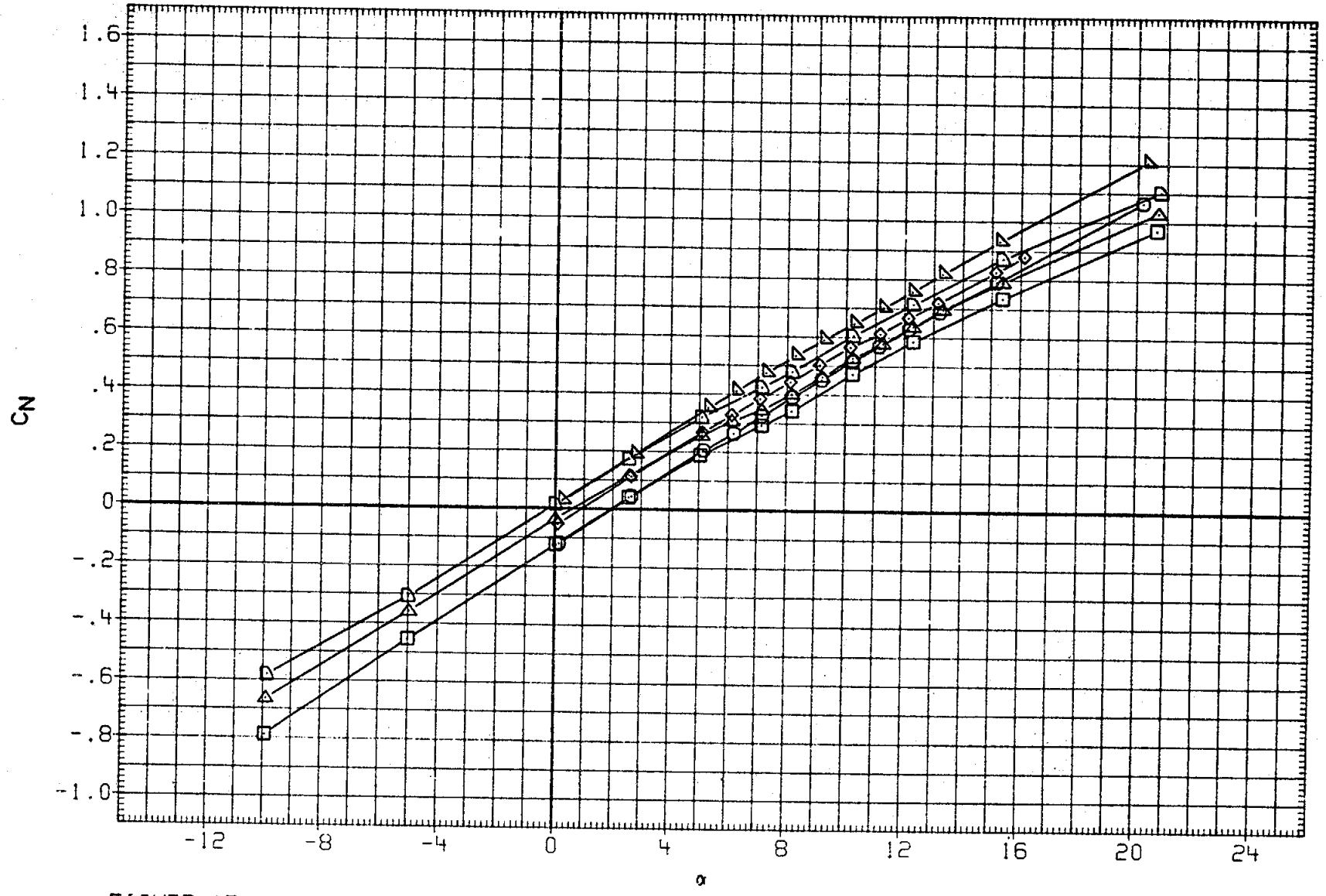

FIGURE 15. BASIC LONGITUDINAL, ELEVON EFFECTS

(D) MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0005	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.790	.000	.000	25.500	-.030	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0006	◁	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
R2F026	D	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

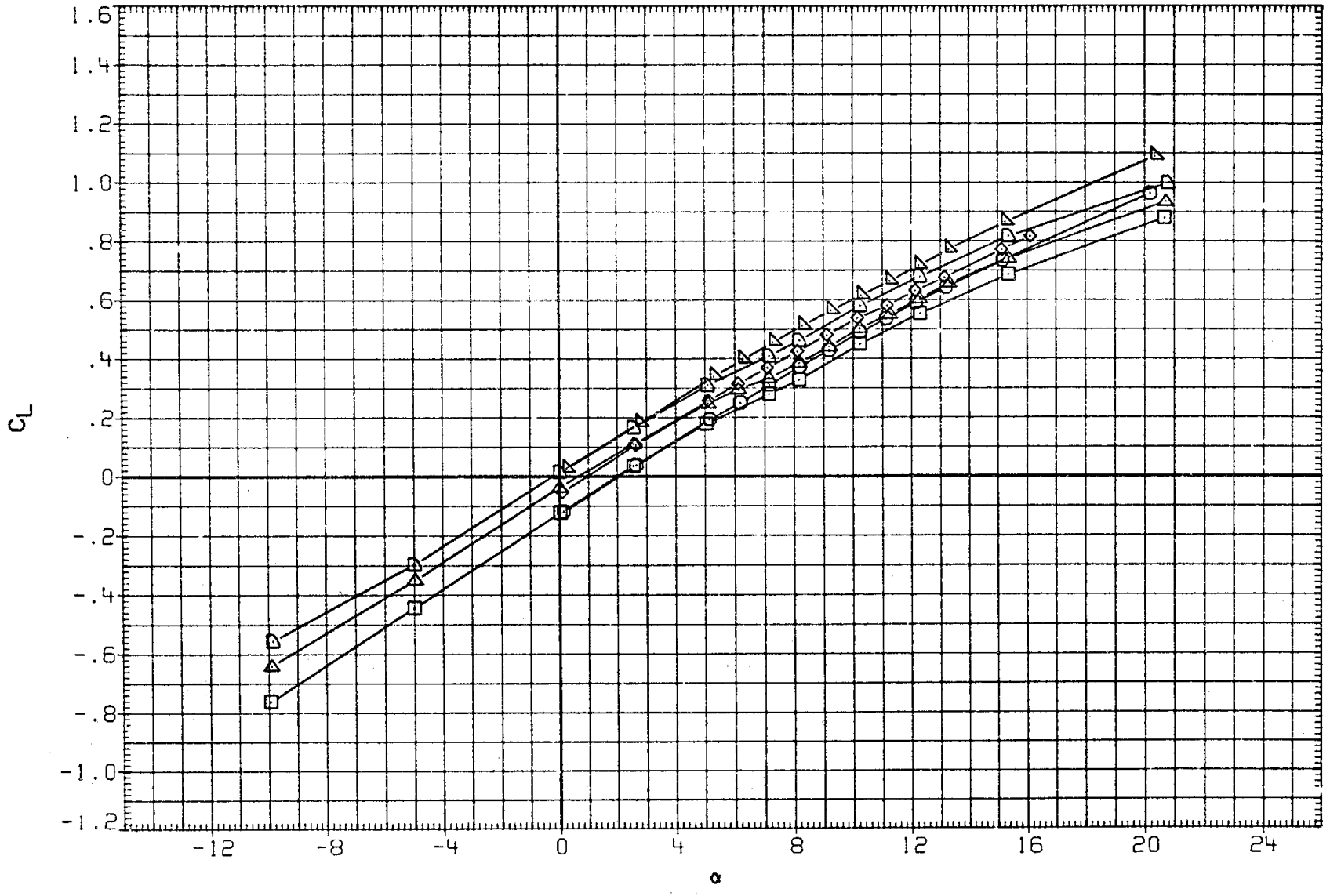

FIGURE 15. BASIC LONGITUDINAL, ELEVON EFFECTS

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0005	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.790	.000	.000	25.500	-.030	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0006	◁	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
R2F026	▷	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

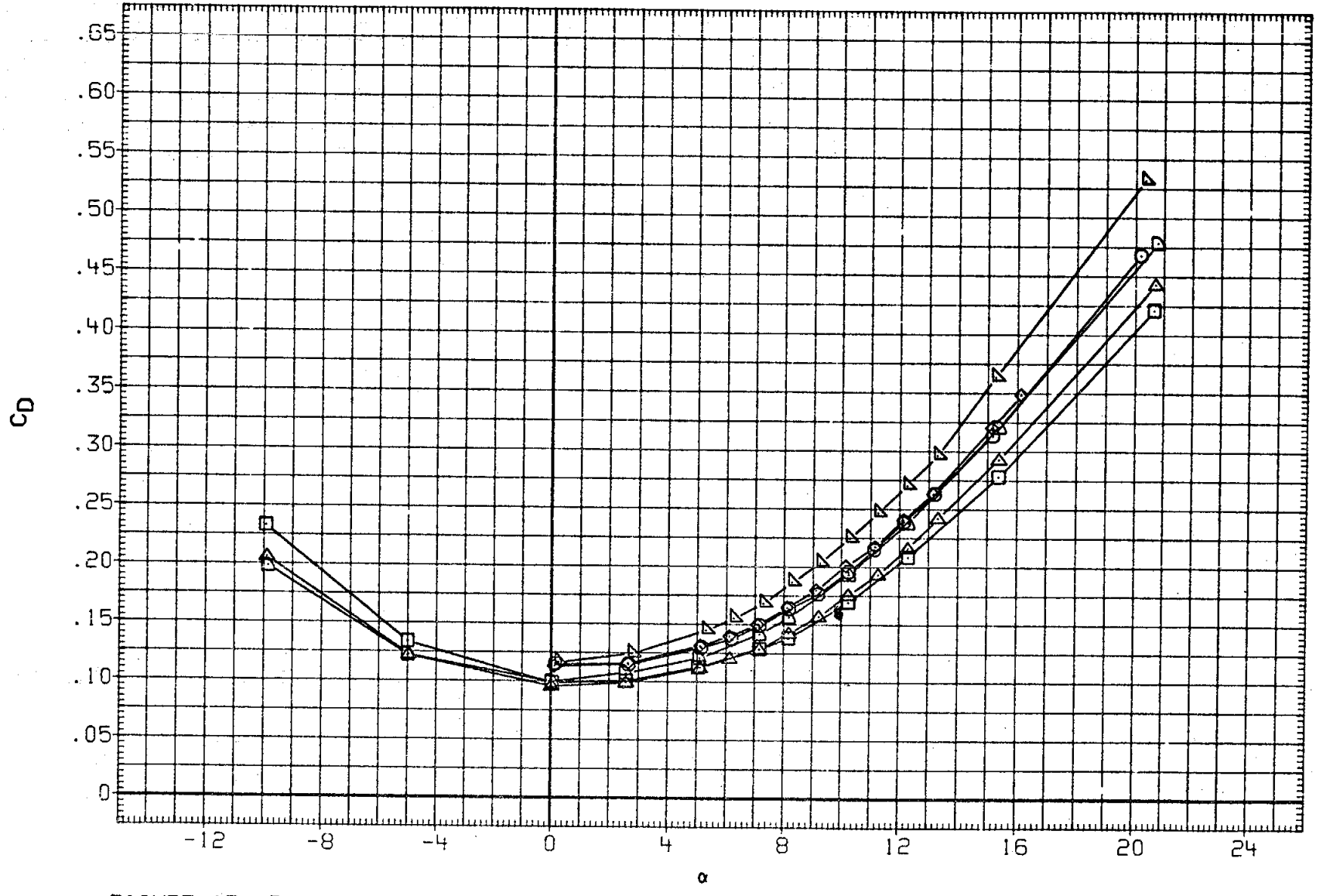

FIGURE 15. BASIC LONGITUDINAL, ELEVON EFFECTS

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0005	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.790	.000	.000	25.500	-.030	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0006	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
R2F026	D	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

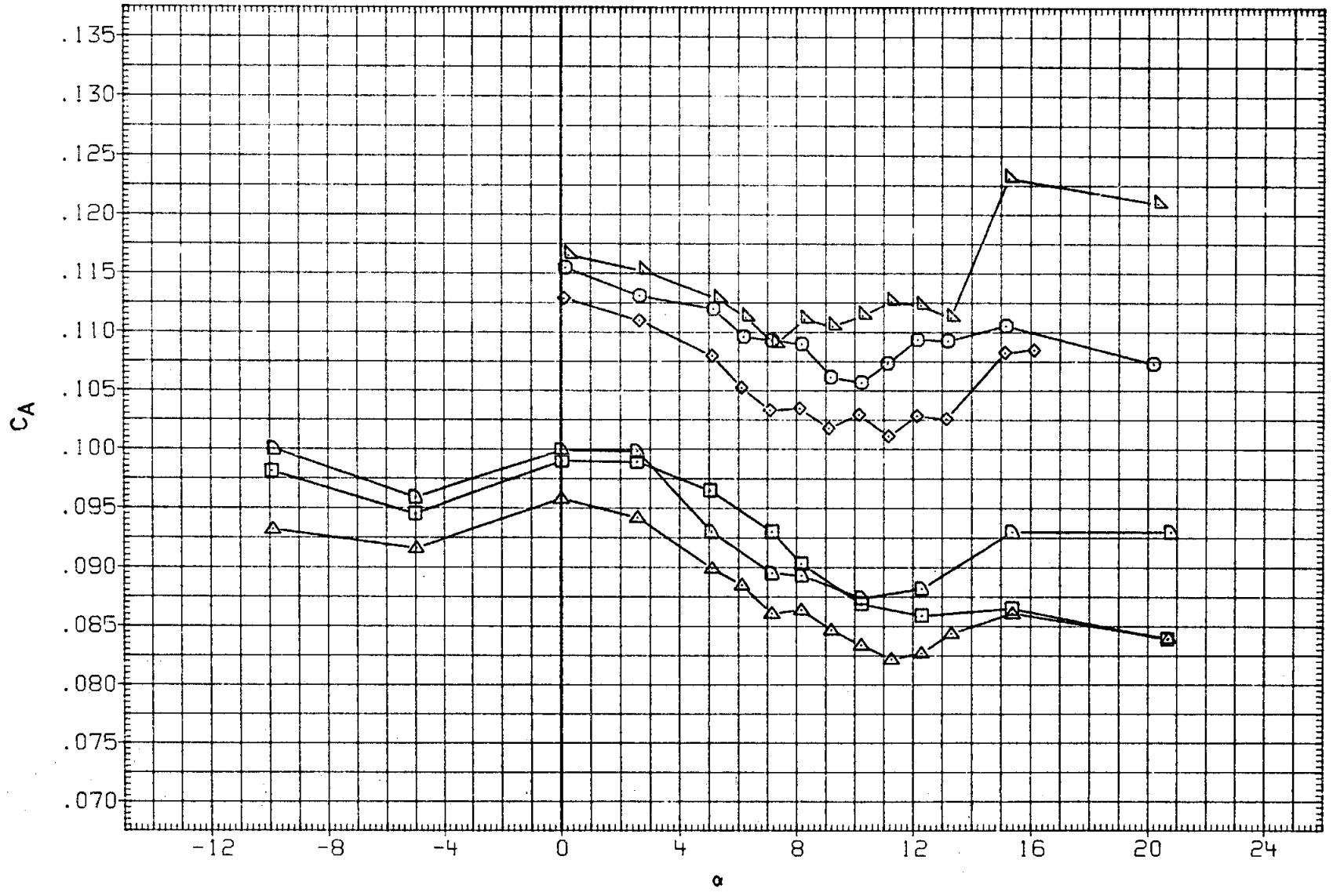

FIGURE 15. BASIC LONGITUDINAL, ELEVON EFFECTS

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0005	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	-4.790	.000	.000	25.500	-.030	.000
R2F029	□	DATA NOT AVAILABLE	.000	-5.000	.000	.000	25.000	.000	
RK0003	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
R2F012	△	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RK0006	◺	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
R2F026	◻	DATA NOT AVAILABLE	.000	5.000	.000	.000	25.000	.000	

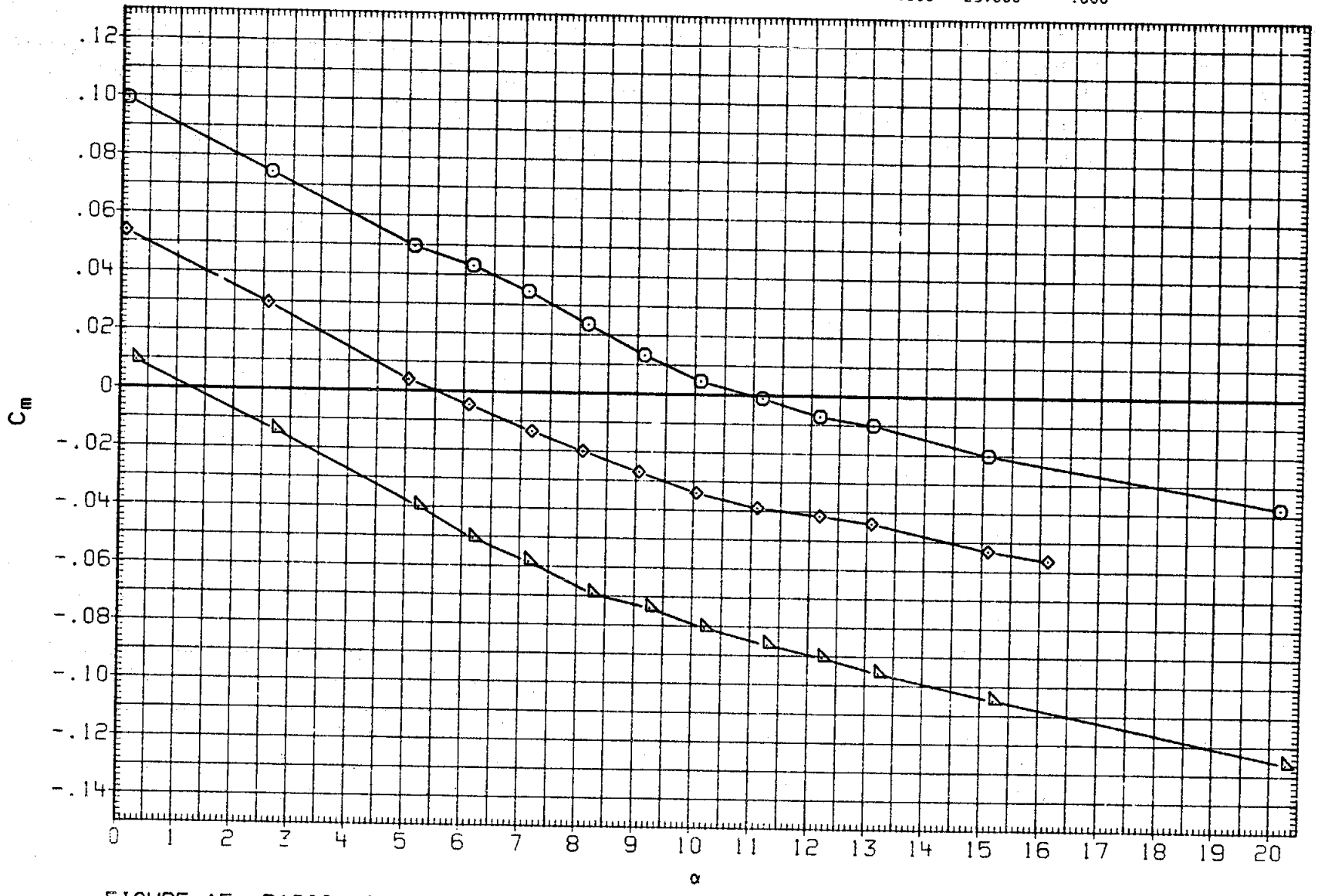

FIGURE 15. BASIC LONGITUDINAL, ELEVON EFFECTS

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0005	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.790	.000	.000	25.500	-.030	.000
R2F029	□	DATA NOT AVAILABLE	.000	-5.000	.000	.000	25.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
R2F012	△	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RK0006	◁	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
R2F026	▷	DATA NOT AVAILABLE	.000	5.000	.000	.000	25.000	.000	

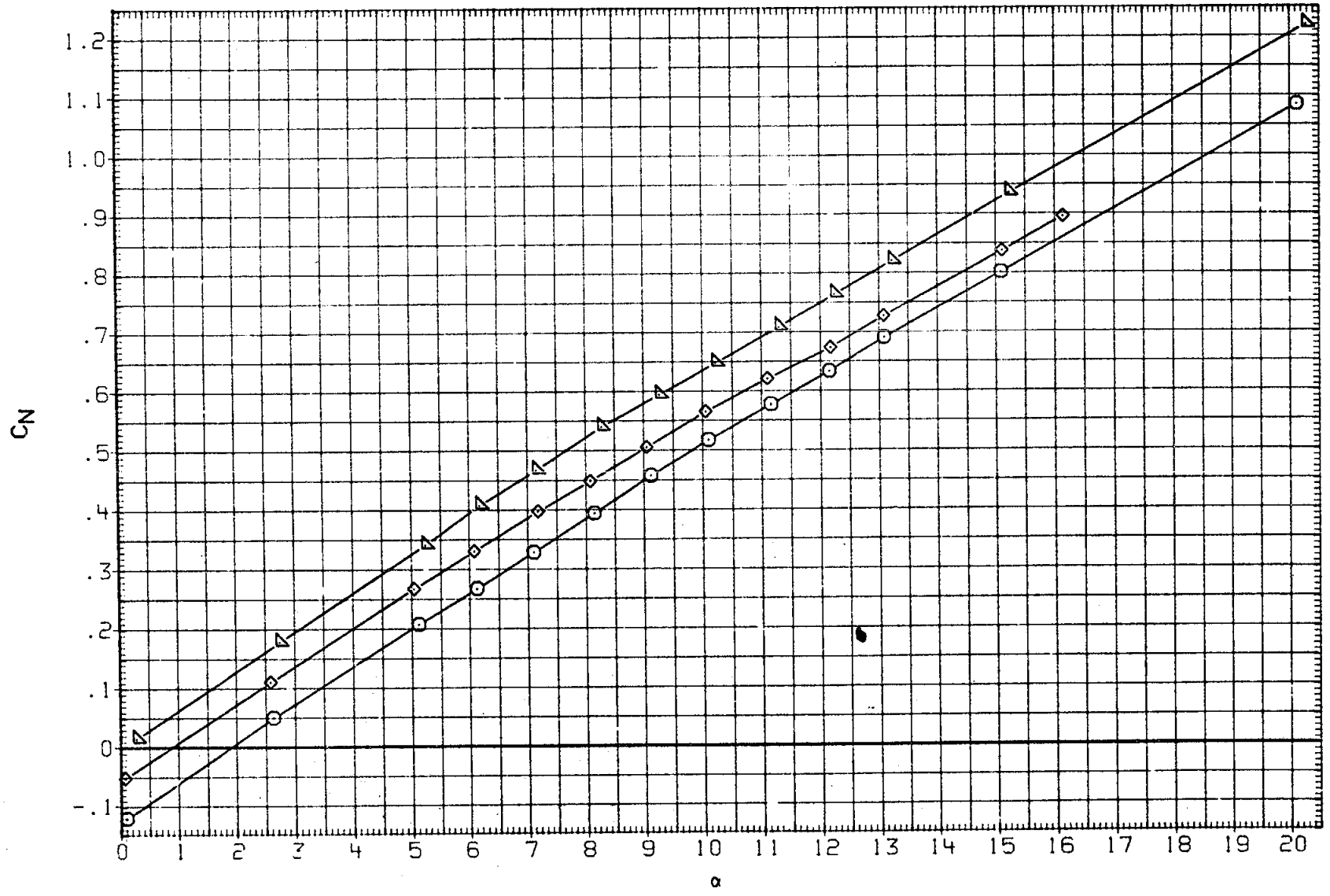

FIGURE 15. BASIC LONGITUDINAL, ELEVON EFFECTS

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0005	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.790	.000	.000	25.500	-.030	.000
R2F029	□	DATA NOT AVAILABLE	.000	-5.000	.000	.000	25.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
R2F012	△	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RK0006	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
R2F026	D	DATA NOT AVAILABLE	.000	5.000	.000	.000	25.000	.000	

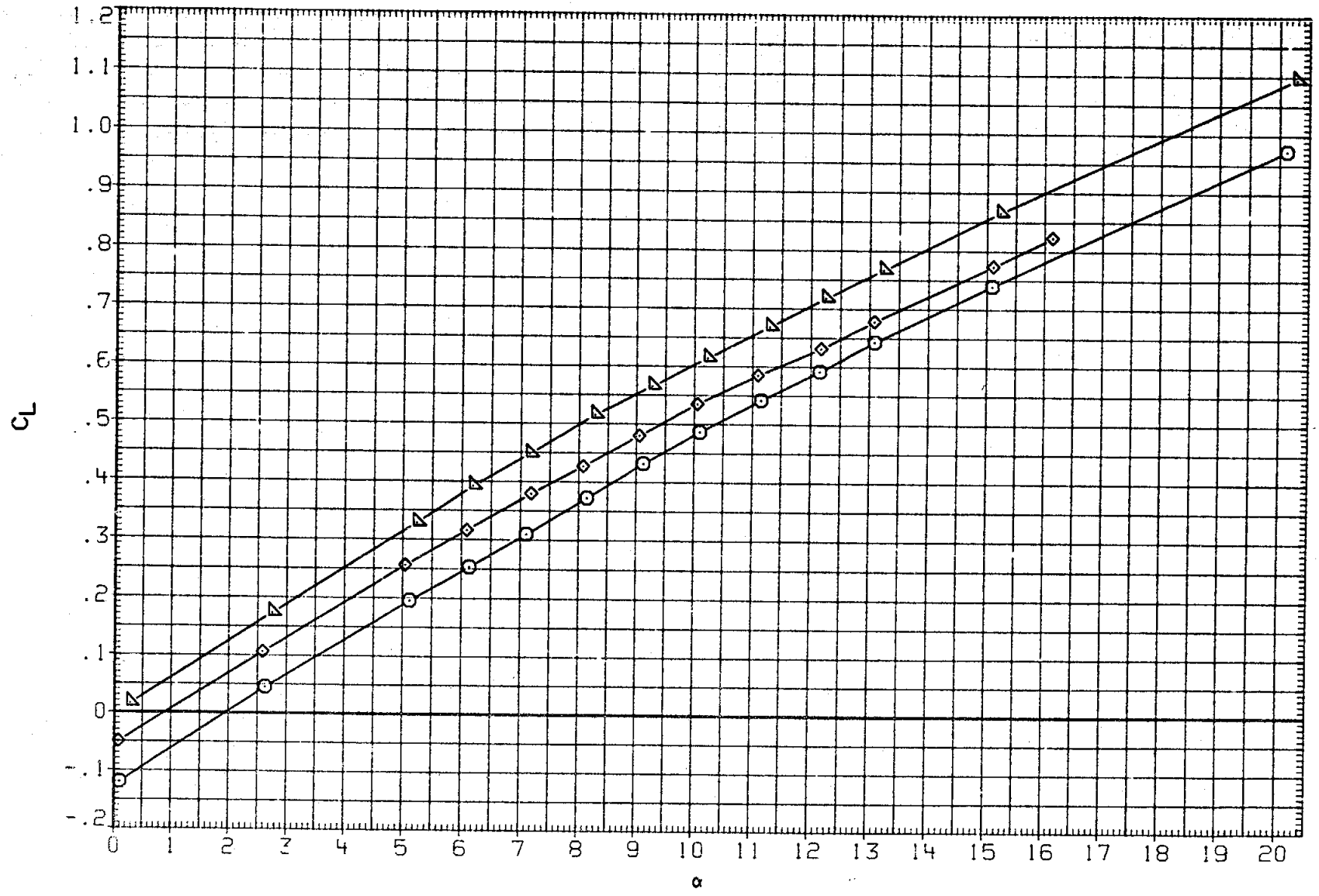

FIGURE 15. BASIC LONGITUDINAL, ELEVON EFFECTS

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0005	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.790	.000	.000	25.500	-.030	.000
R2F029	□	DATA NOT AVAILABLE	.000	-5.000	.000	.000	25.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
R2F012	△	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RK0006	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
R2F026	◻	DATA NOT AVAILABLE	.000	5.000	.000	.000	25.000	.000	

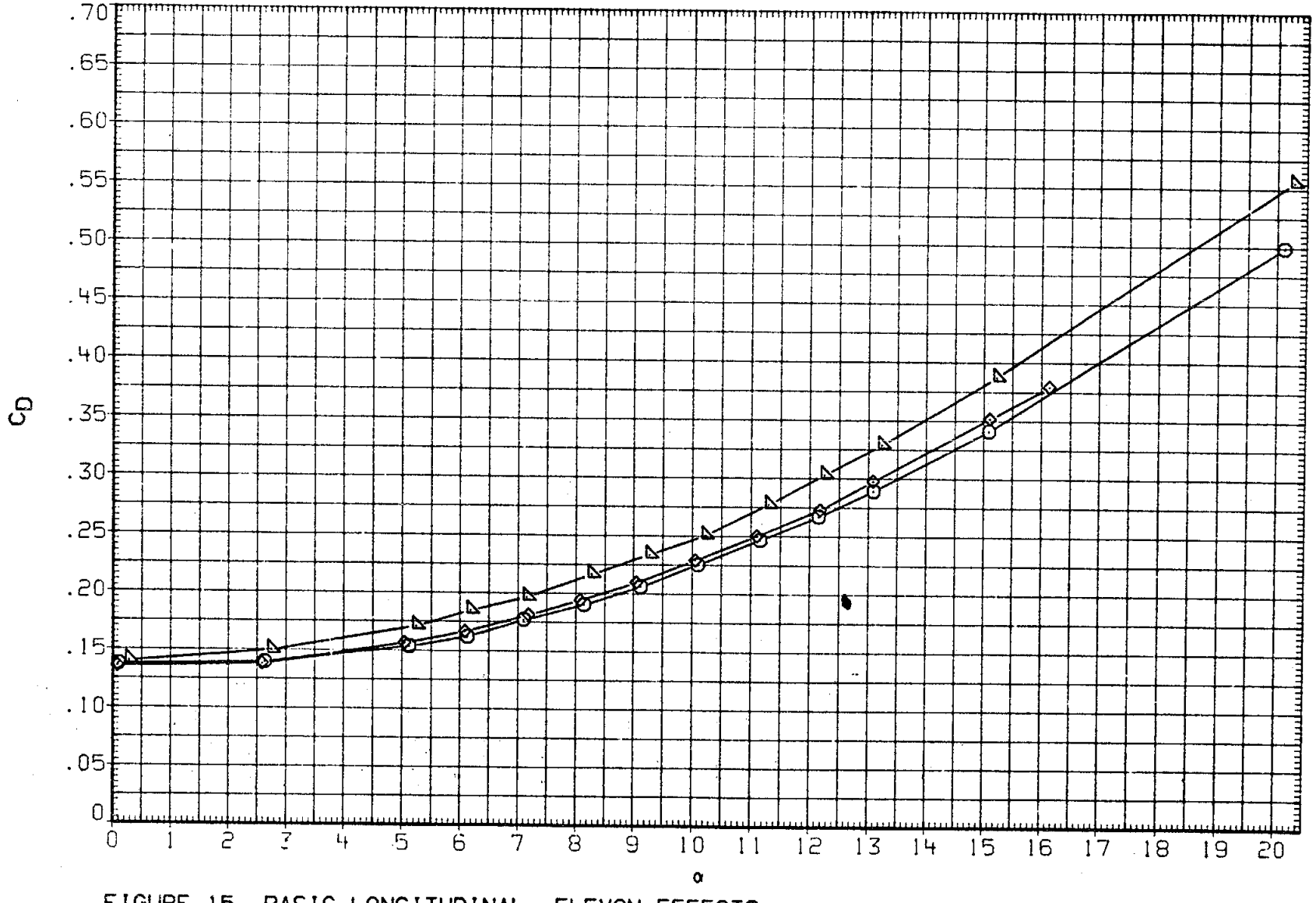

FIGURE 15. BASIC LONGITUDINAL, ELEVON EFFECTS

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0005	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.790	.000	.000	25.500	-.030	.000
R2F029	□	DATA NOT AVAILABLE	.000	-5.000	.000	.000	25.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
R2F012	△	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RK0006	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
R2F026	◺	DATA NOT AVAILABLE	.000	5.000	.000	.000	25.000	.000	

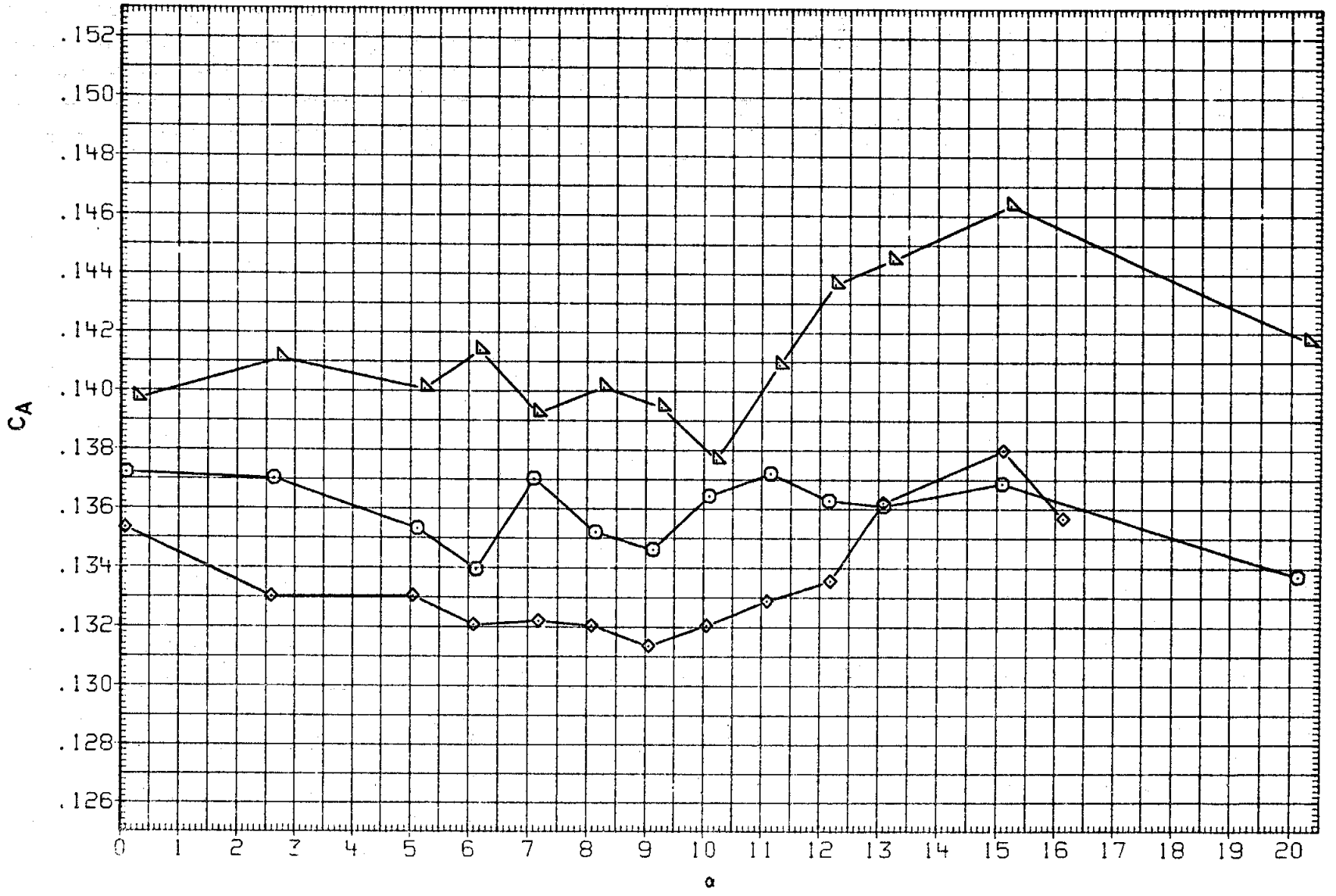

FIGURE 15. BASIC LONGITUDINAL, ELEVON EFFECTS

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0005	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.790	.000	.000	25.500	-.030	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0006	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
R2F026	◻	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

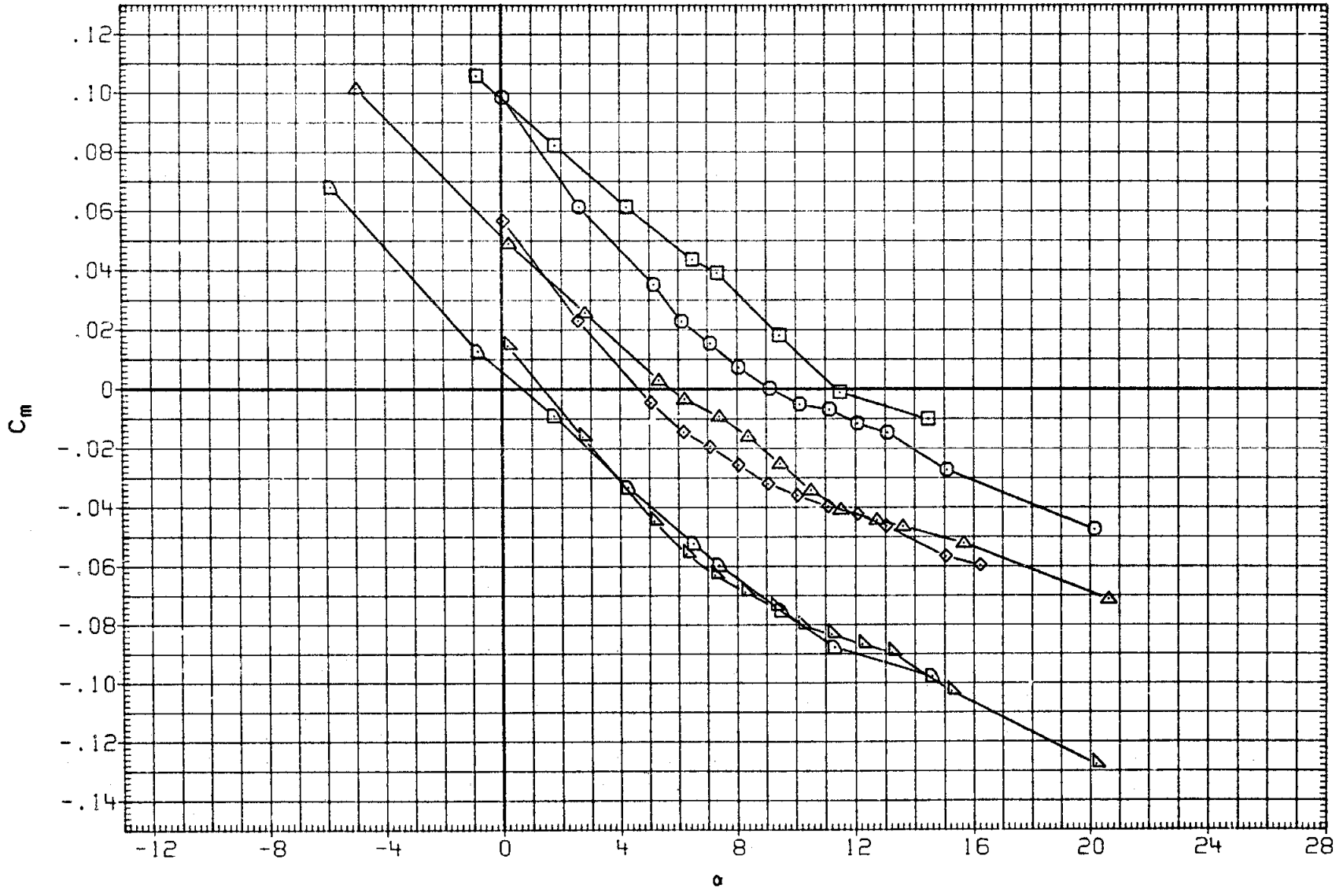

FIGURE 15. BASIC LONGITUDINAL, ELEVON EFFECTS

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION
RK0005	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F029	□	AMES 118-1-11 OA145A 01
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F012	△	AMES 118-1-11 OA145A 01
RK0006	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F026	D	AMES 118-1-11 OA145A 01

BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
.000	-4.790	.000	.000	25.500	-.030	.000
.000	-5.000	.000	.000	25.000	.000	
.000	.000	.000	.000	25.500	-.030	.000
.000	.000	.000	.000	25.000	.000	
.000	4.920	-.010	.000	25.500	-.030	.000
.000	5.000	.000	.000	25.000	.000	

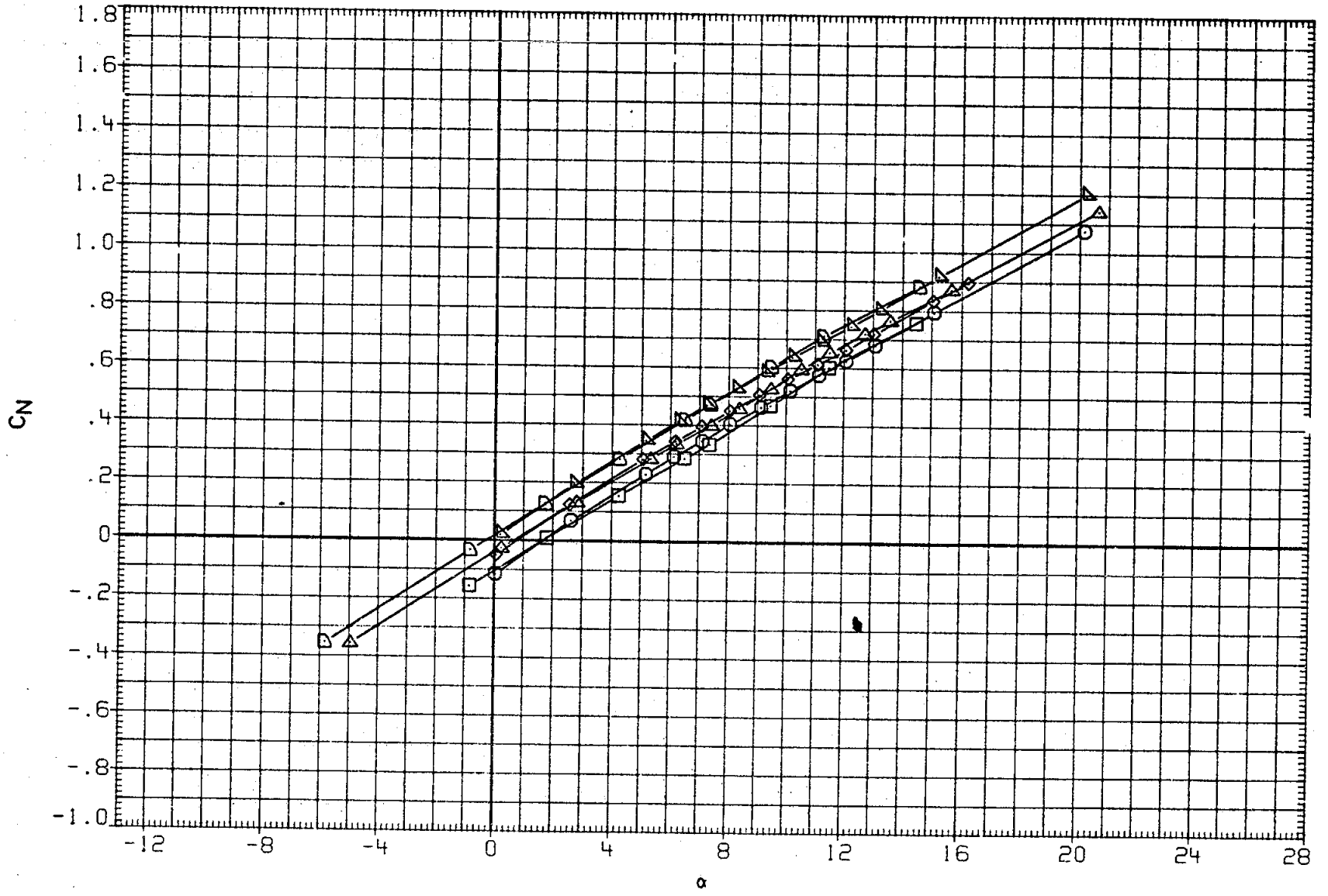

FIGURE 15. BASIC LONGITUDINAL, ELEVON EFFECTS

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0005	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.790	.000	.000	25.500	-.030	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0006	◁	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
R2F026	▷	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

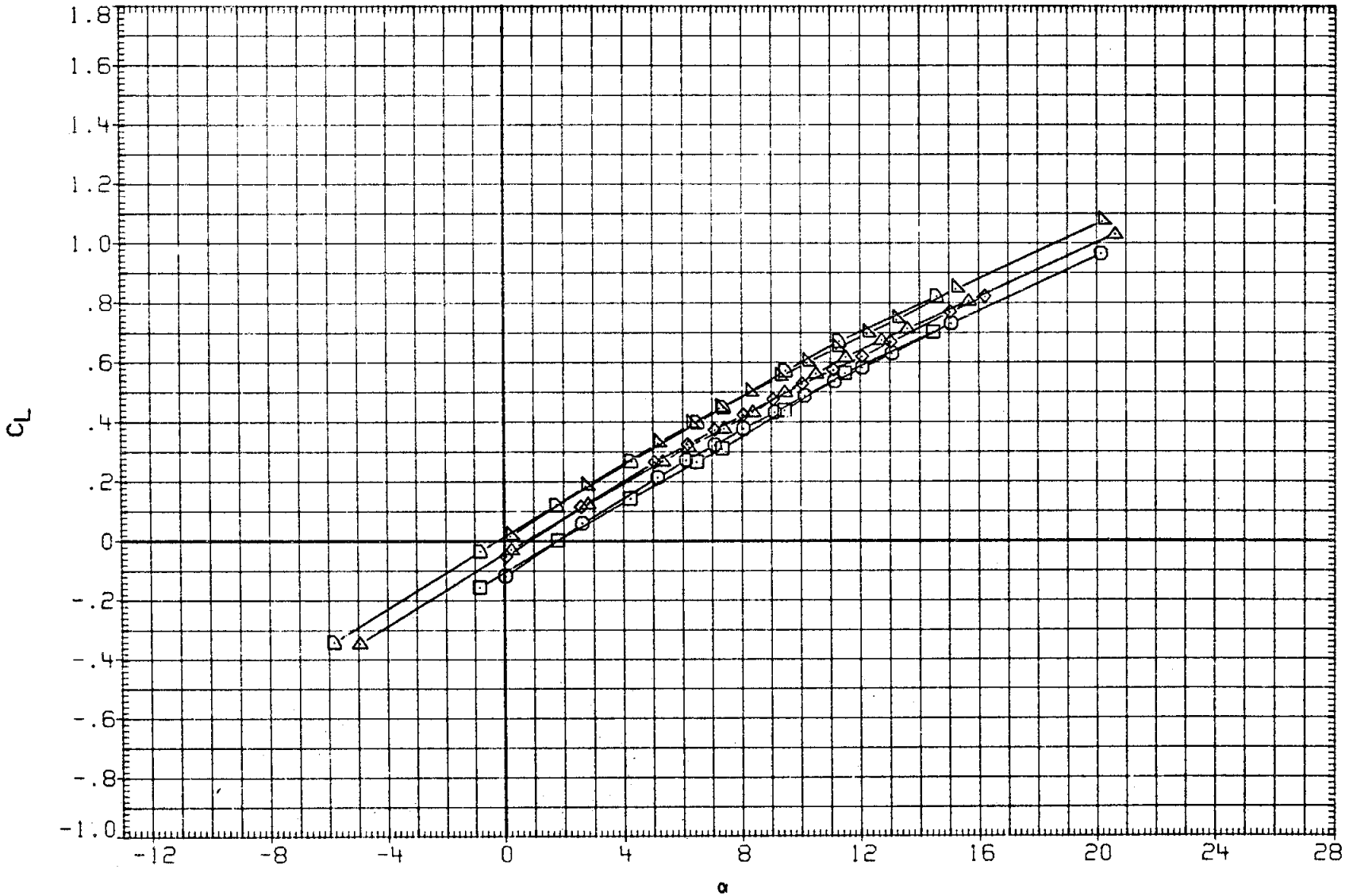

FIGURE 15. BASIC LONGITUDINAL, ELEVON EFFECTS

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0005	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.790	.000	.000	25.500	-.030	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0006	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
R2F026	◻	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

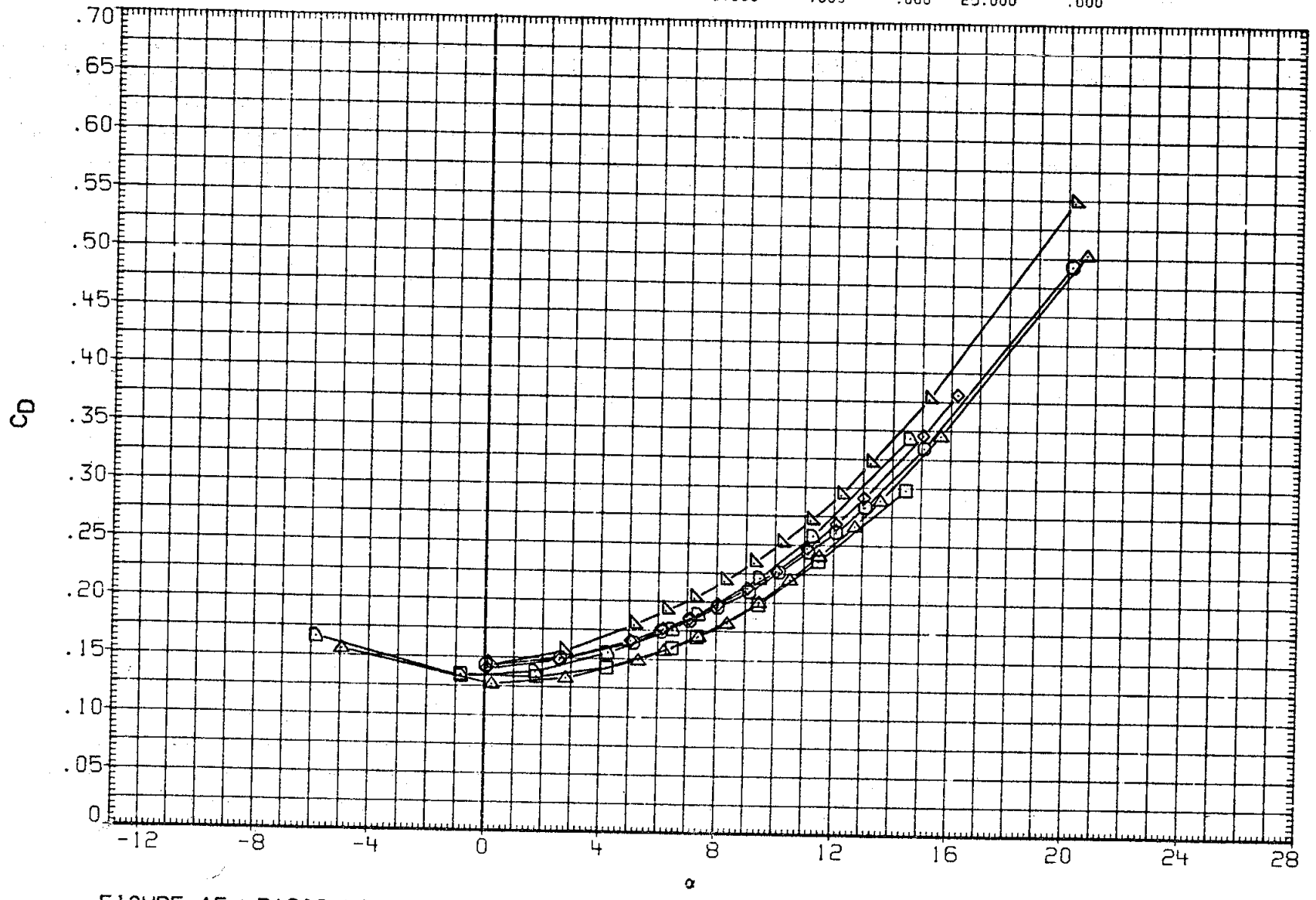

FIGURE 15. BASIC LONGITUDINAL, ELEVON EFFECTS

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0005	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.790	.000	.000	25.500	-.030	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0006	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
R2F026	D	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

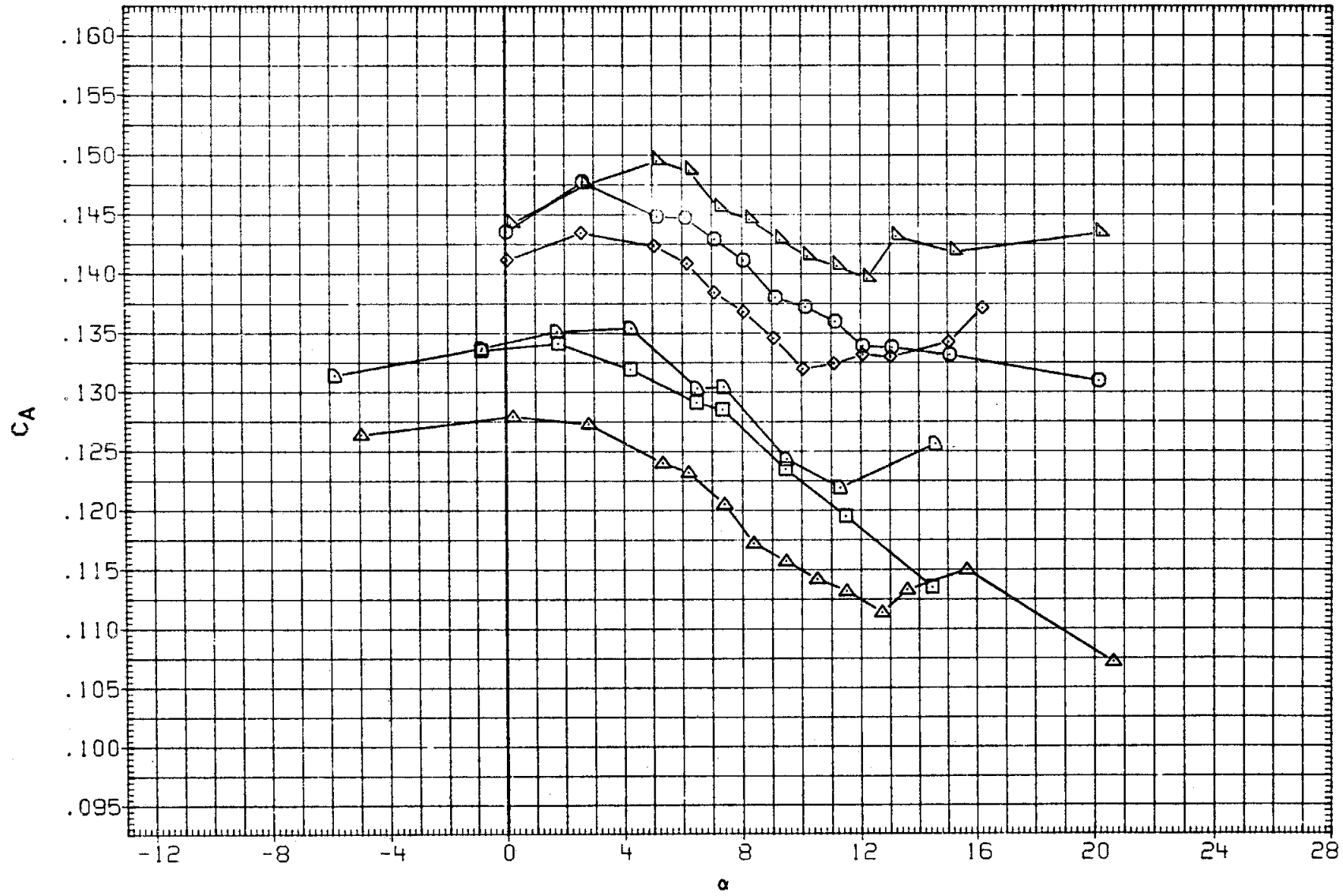

FIGURE 15. BASIC LONGITUDINAL, ELEVON EFFECTS

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0005	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.790	.000	.000	25.500	-.030	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0006	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
R2F026	◗	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

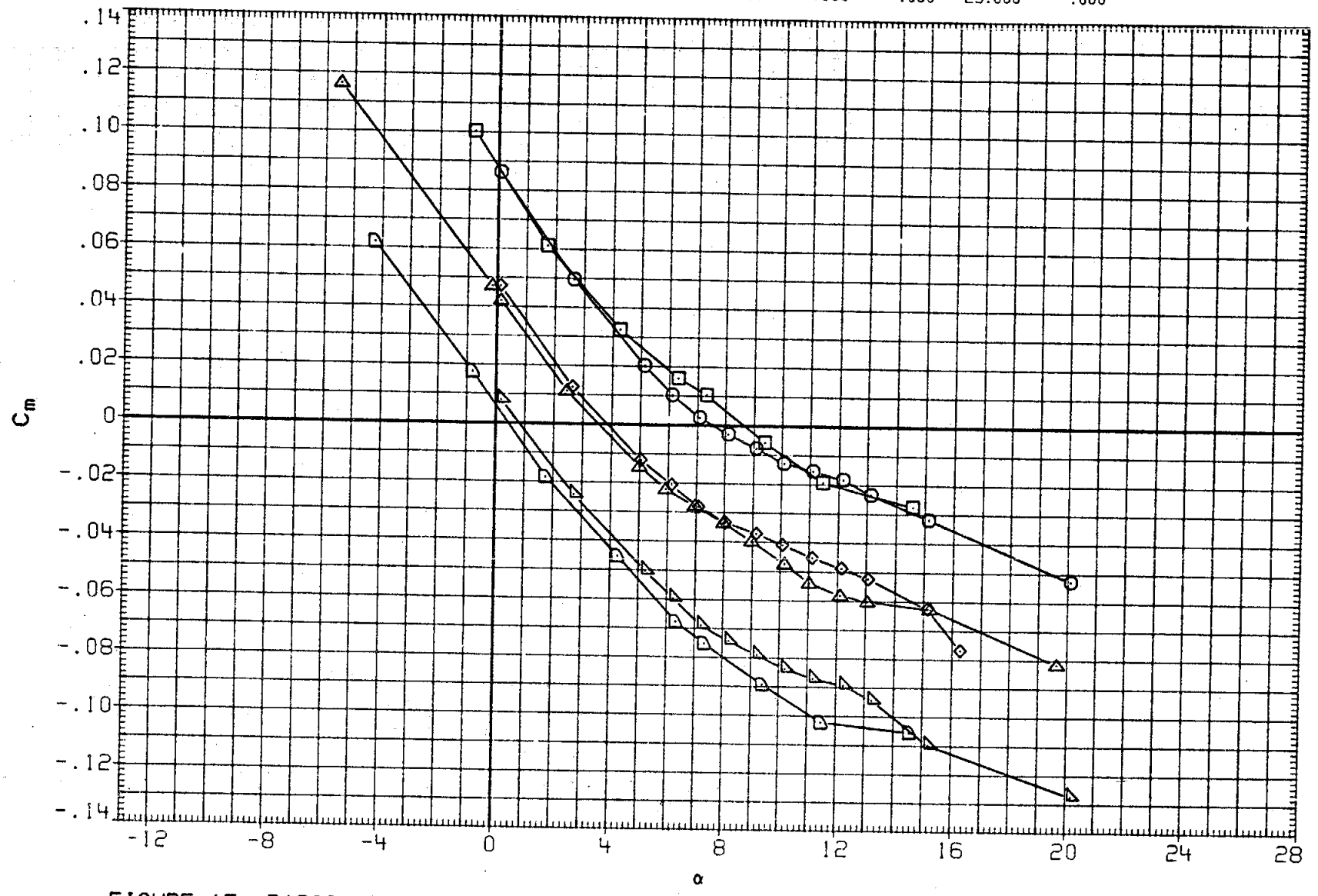

FIGURE 15. BASIC LONGITUDINAL, ELEVON EFFECTS

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0005	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.790	.000	.000	25.500	-.030	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0006	◁	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
R2F026	▷	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

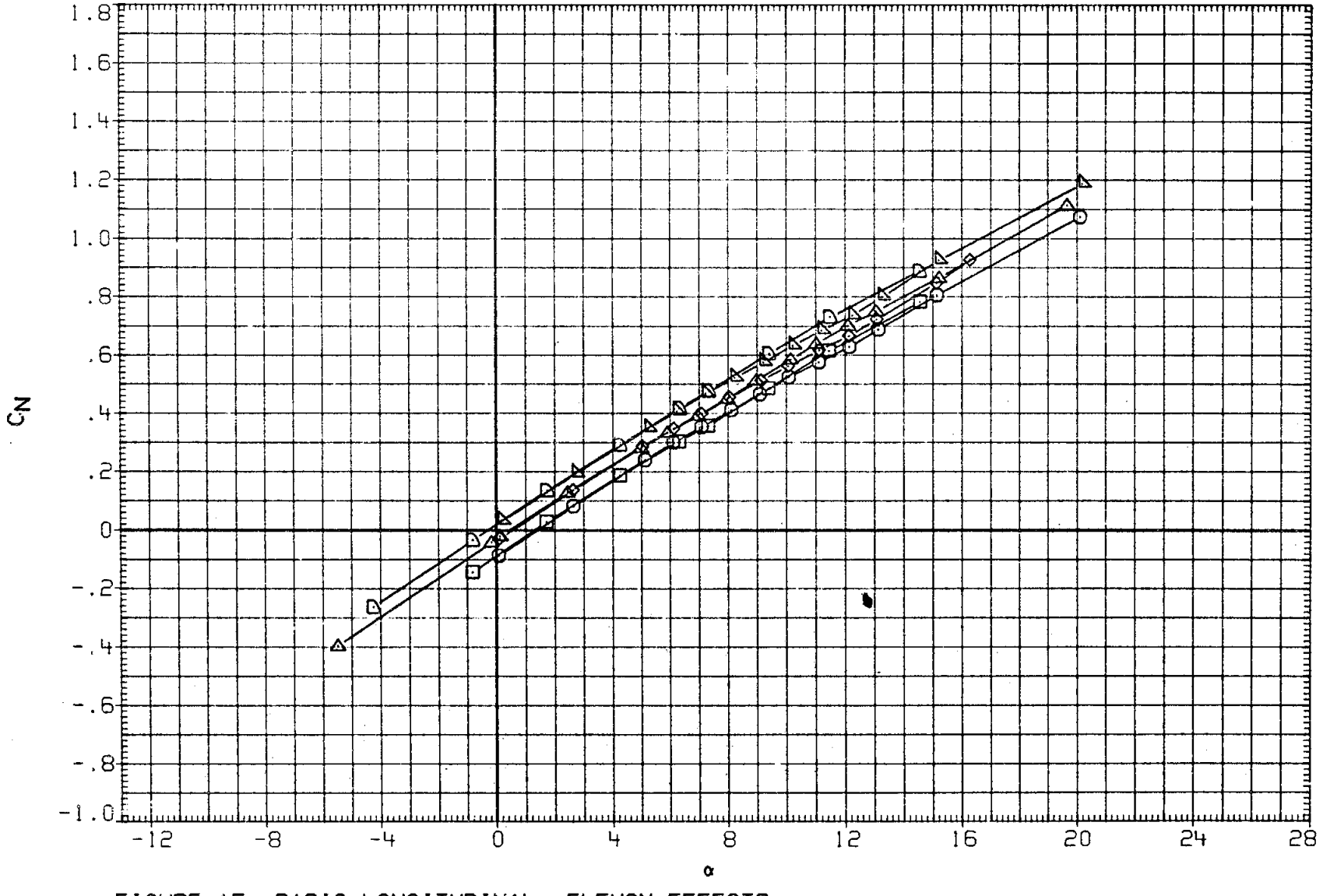

FIGURE 15. BASIC LONGITUDINAL, ELEVON EFFECTS

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION
RK0005	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.
R2F029	□	AMES 118-1-11 0A145A 01
RK0003	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.
R2F012	△	AMES 118-1-11 0A145A 01
RK0006	◺	LARC 16FT TWT 325(0A270B) 105-0 ORB.
R2F026	D	AMES 118-1-11 0A145A 01

BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
.000	-4.790	.000	.000	25.500	-.030	.000
.000	-5.000	.000	.000	25.000	.000	
.000	.000	.000	.000	25.500	-.030	.000
.000	.000	.000	.000	25.000	.000	
.000	4.920	-.010	.000	25.500	-.030	.000
.000	5.000	.000	.000	25.000	.000	

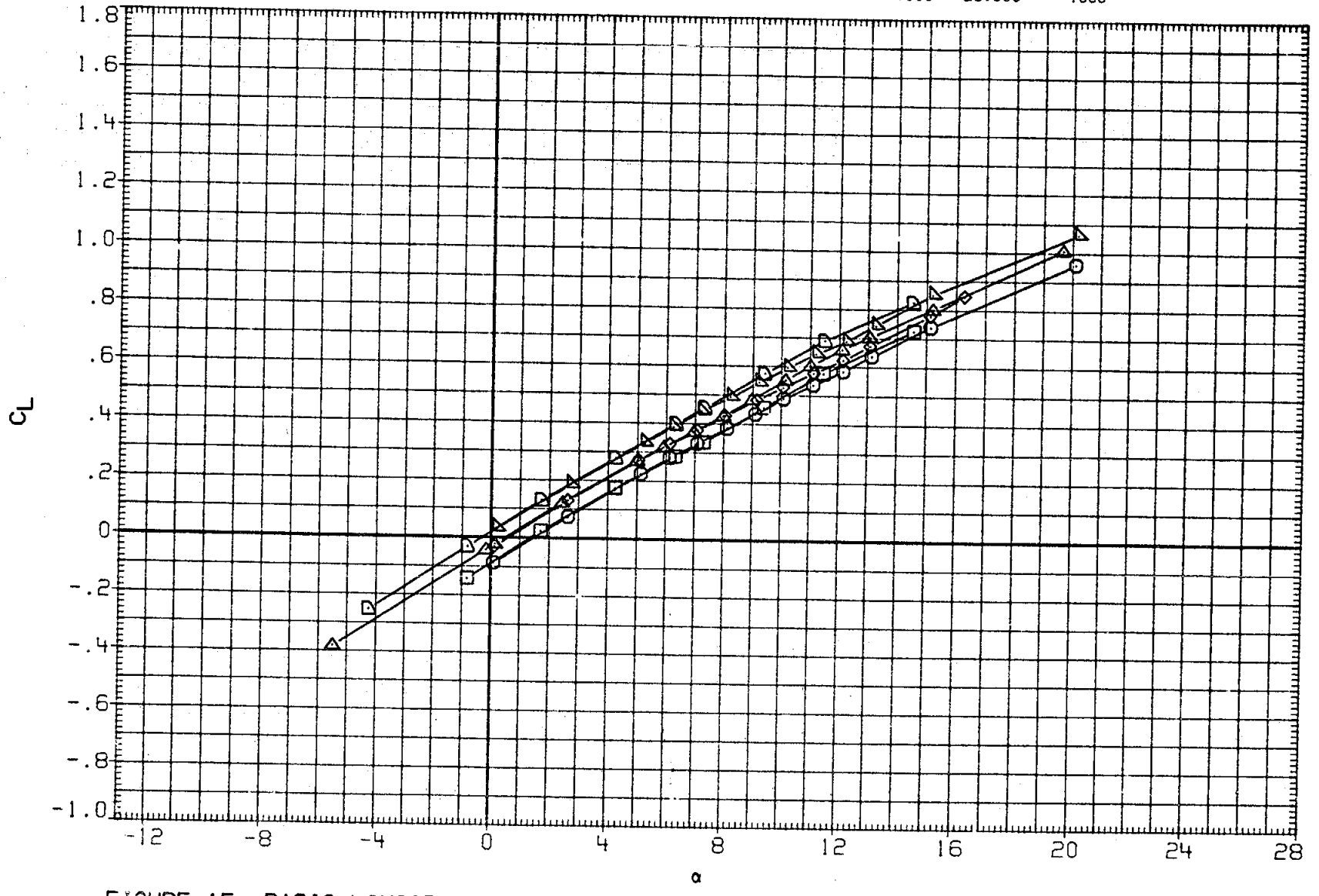

FIGURE 15. BASIC LONGITUDINAL, ELEVON EFFECTS

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0005	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.790	.000	.000	25.500	-.030	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0006	◁	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
R2F026	▷	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

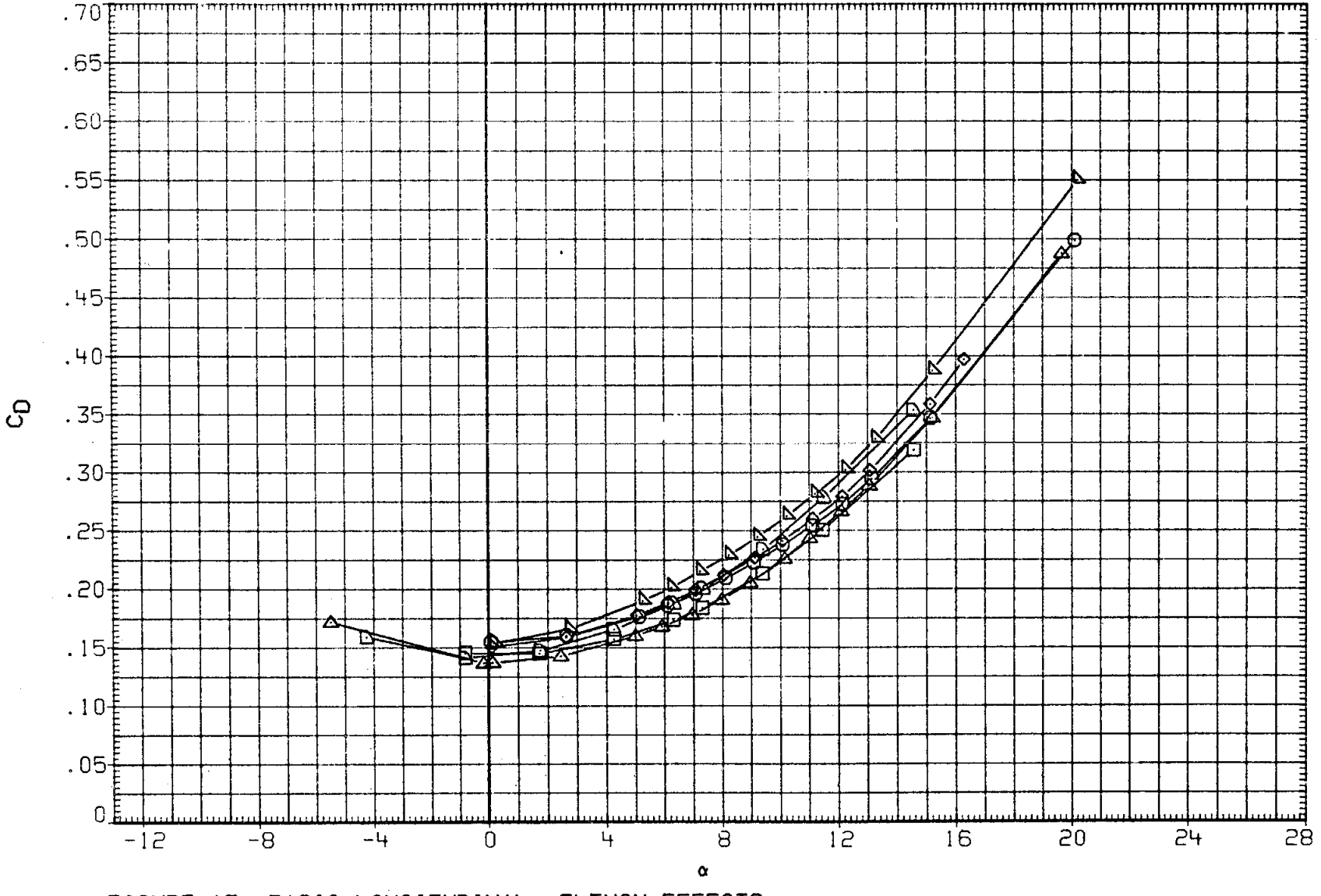

FIGURE 15. BASIC LONGITUDINAL, ELEVON EFFECTS

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0005	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.790	.000	.000	25.500	-.030	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0006	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
R2F026	◗	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

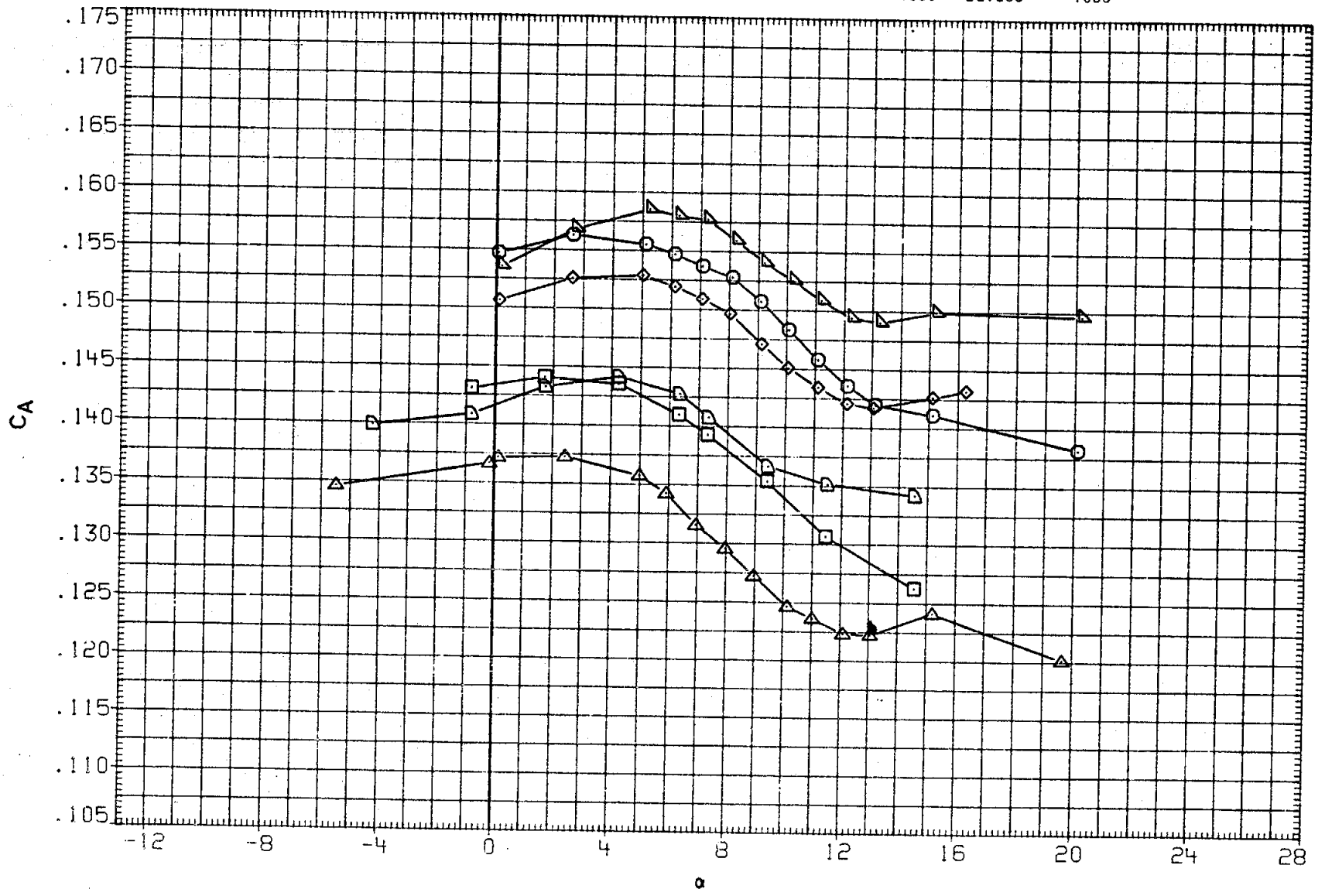

FIGURE 15. BASIC LONGITUDINAL, ELEVON EFFECTS

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0005	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.790	.000	.000	25.500	-.030	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0006	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
R2F026	◻	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

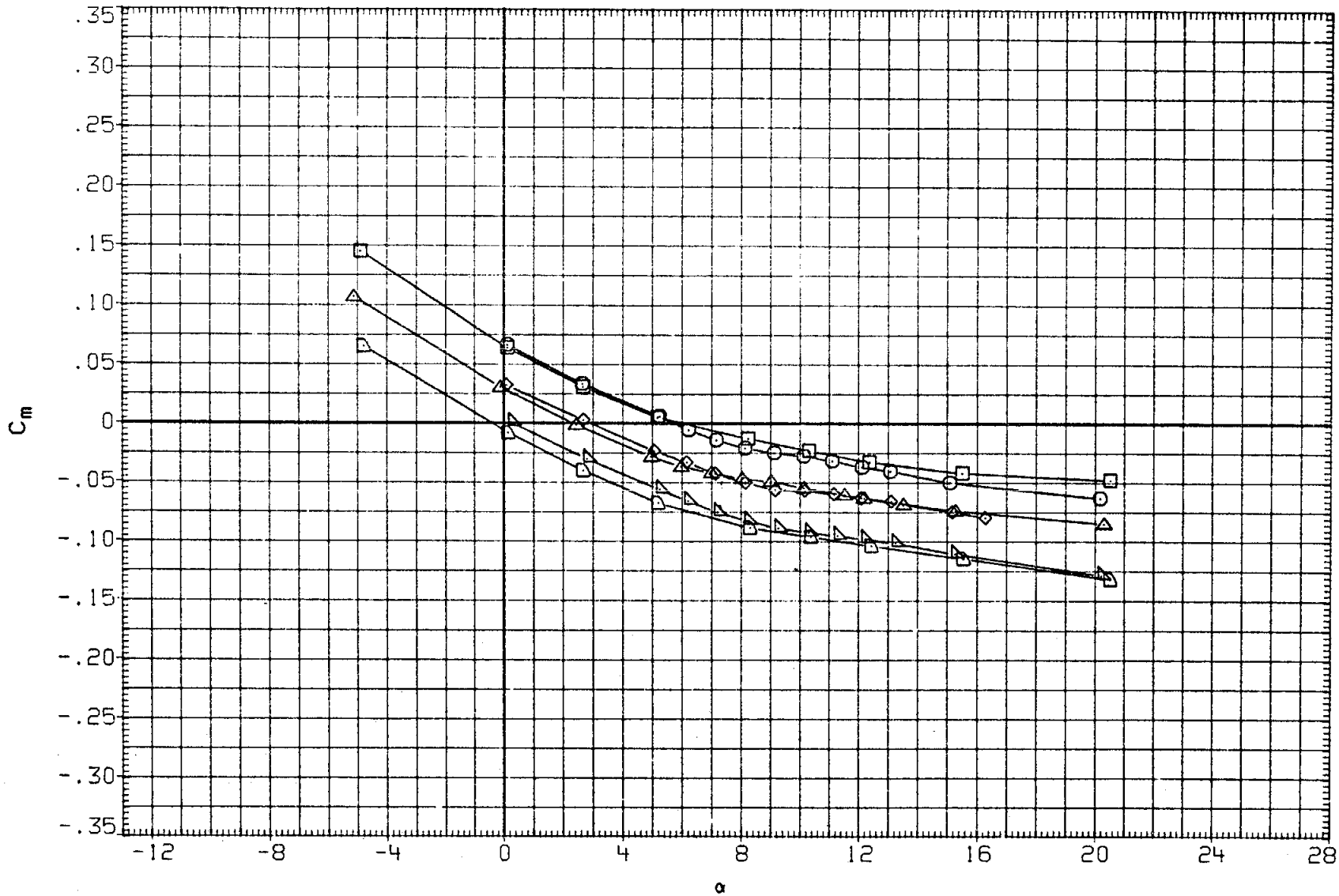

FIGURE 15. BASIC LONGITUDINAL, ELEVON EFFECTS

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0005	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.790	.000	.000	25.500	-.030	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0006	◁	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
R2F026	D	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

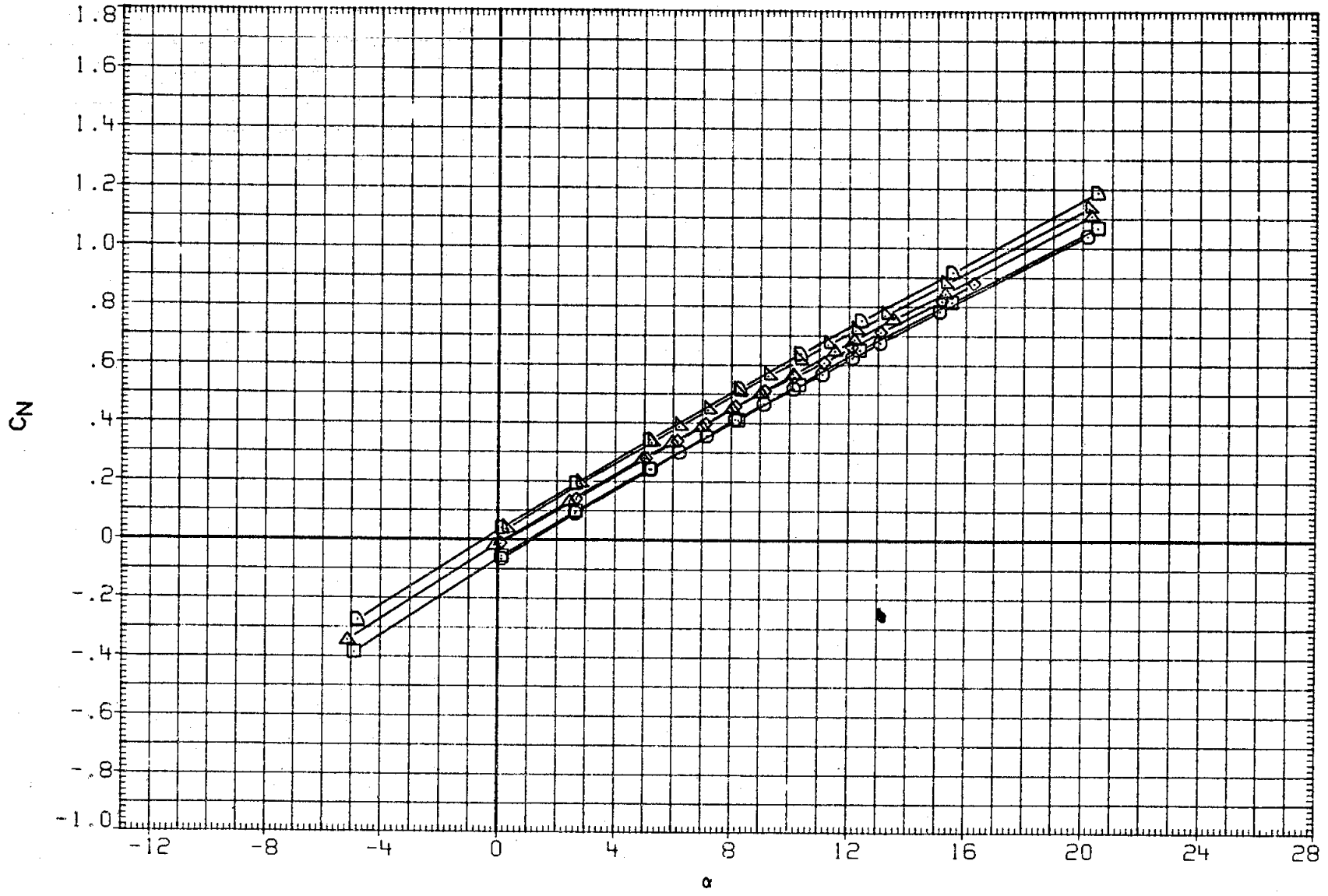

FIGURE 15. BASIC LONGITUDINAL, ELEVON EFFECTS

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0005	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.790	.000	.000	25.500	-.030	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
P2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0006	◁	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
R2F026	▷	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

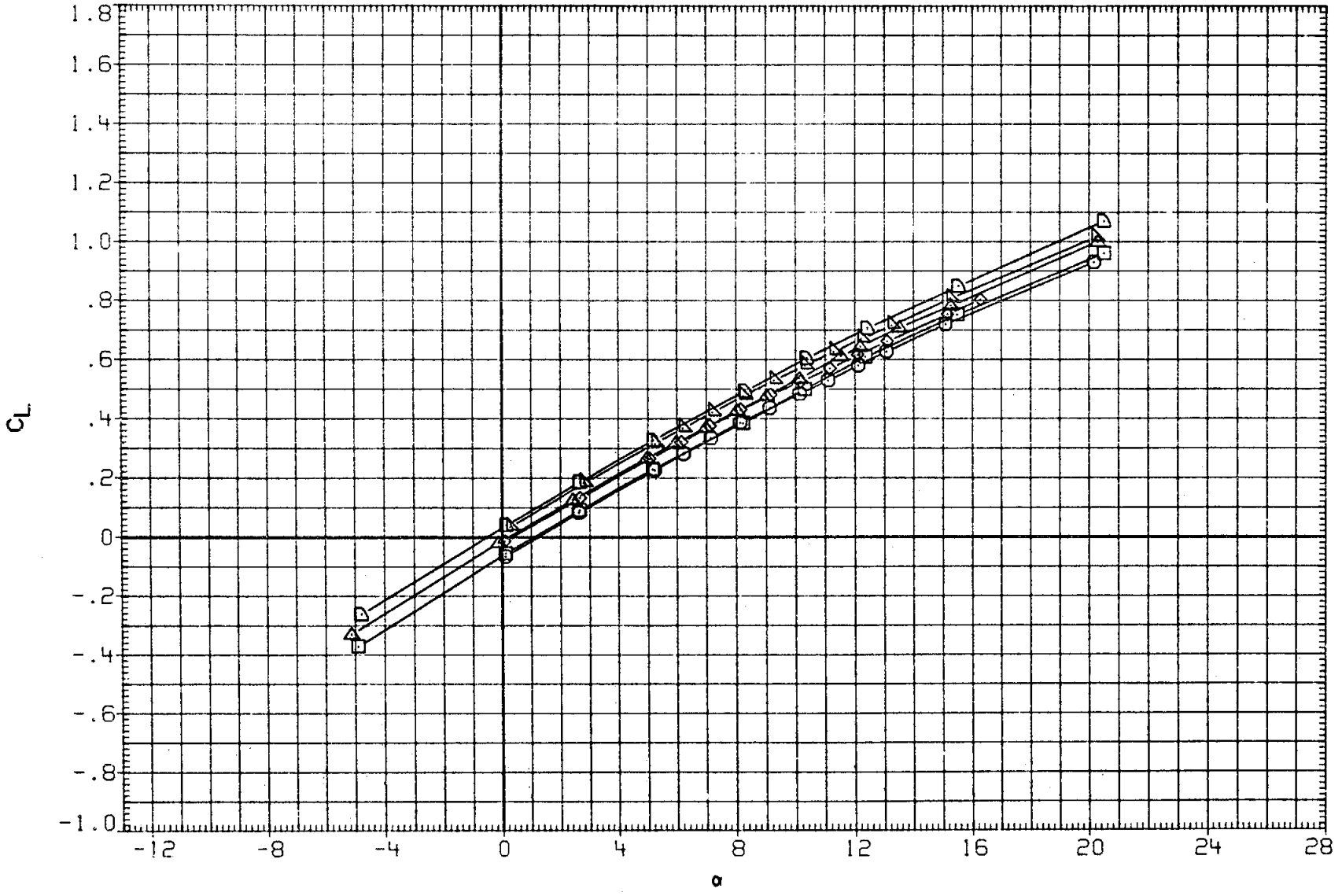

FIGURE 15. BASIC LONGITUDINAL, ELEVON EFFECTS

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0005	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.790	.000	.000	25.500	-.030	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0006	◁	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
R2F026	▷	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

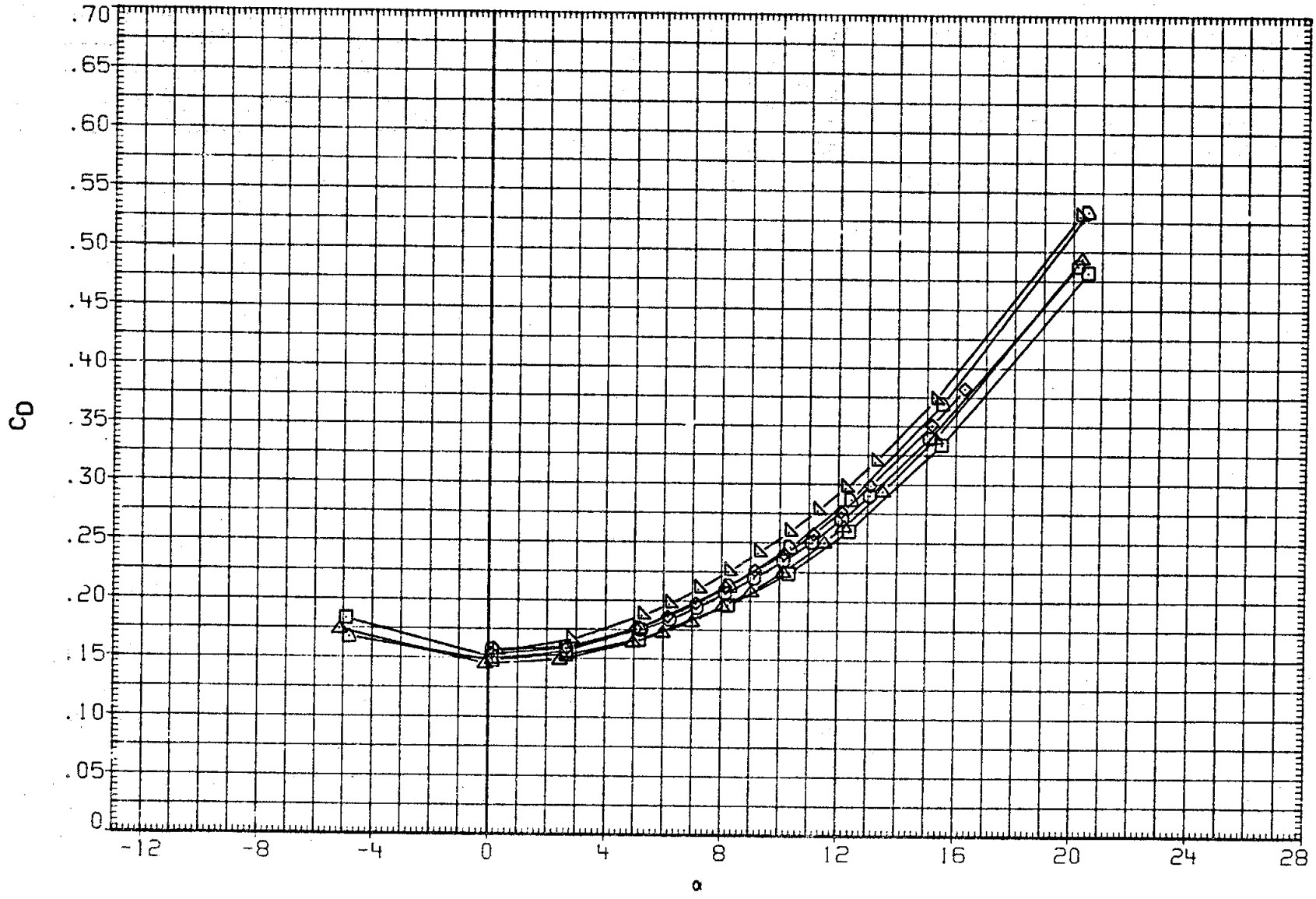

FIGURE 15. BASIC LONGITUDINAL, ELEVON EFFECTS

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0005	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	-4.790	.000	.000	25.500	-.030	.000
R2F029	□	AMES 118-1-11 0A145A 01	.000	-5.000	.000	.000	25.000	.000	
RK0003	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
R2F012	△	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	25.000	.000	
RK0006	◺	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
R2F026	◻	AMES 118-1-11 0A145A 01	.000	5.000	.000	.000	25.000	.000	

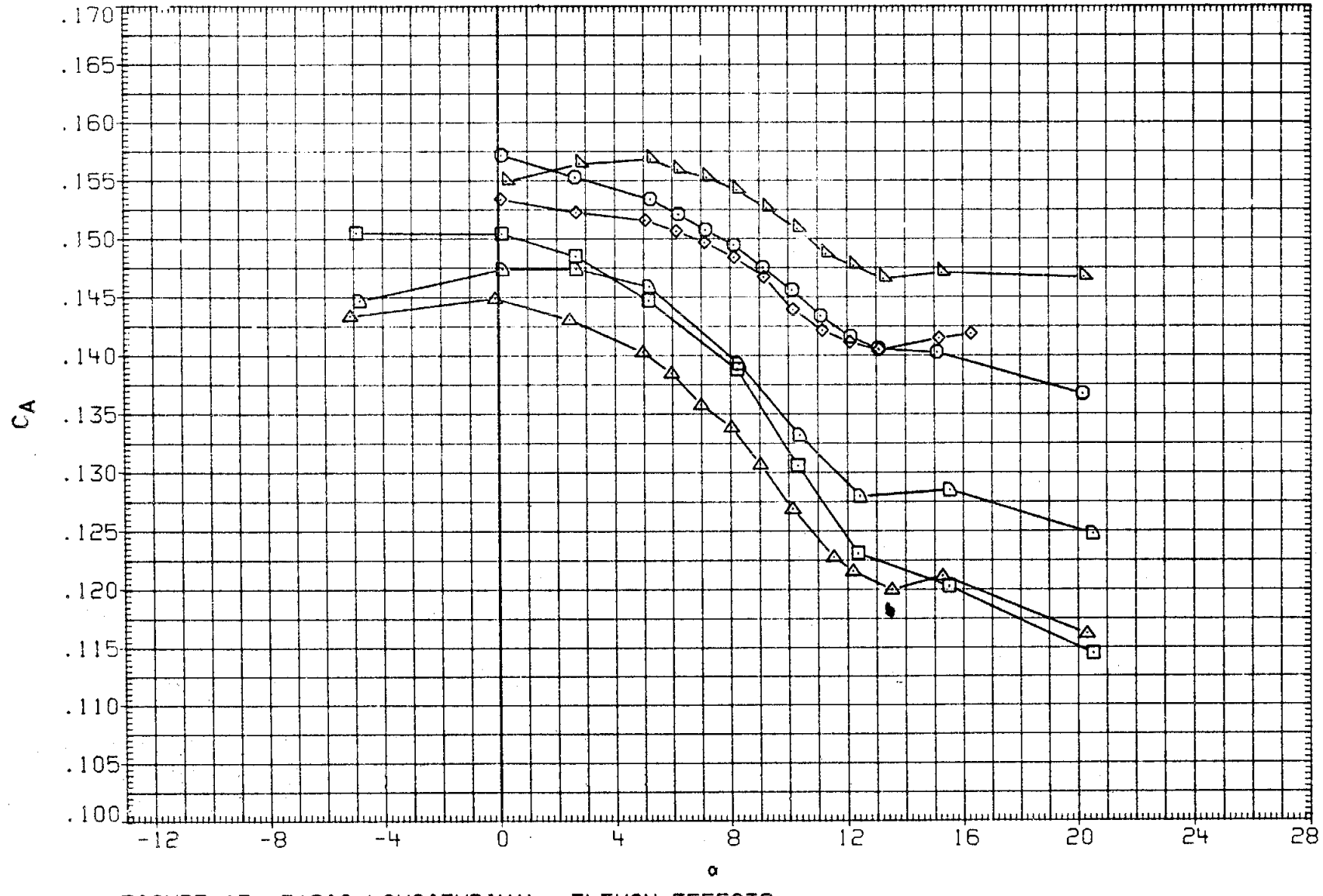

FIGURE 15. BASIC LONGITUDINAL, ELEVON EFFECTS

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0005	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.790	.000	.000	25.500	-.030	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0006	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
R2F026	◻	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

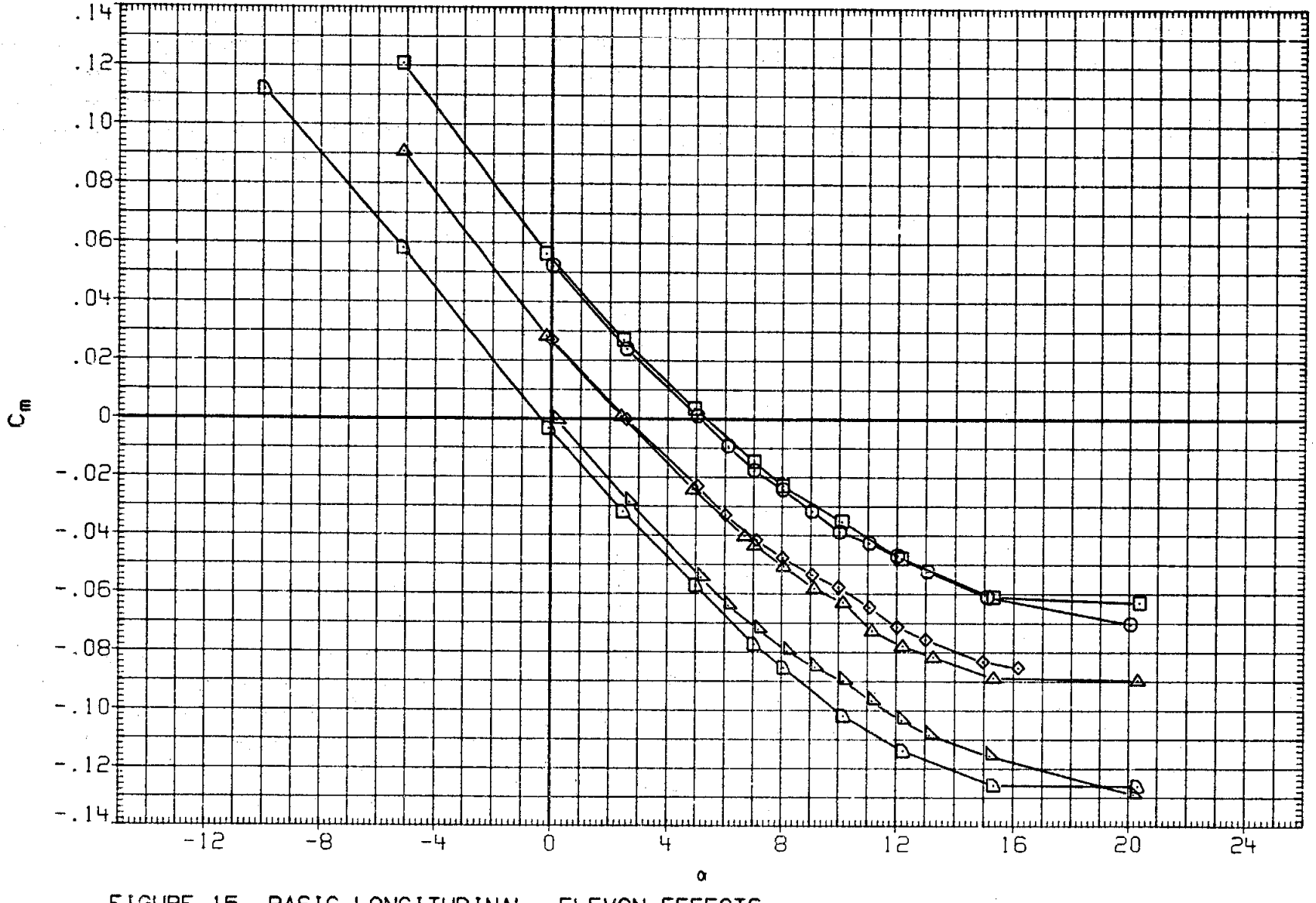

FIGURE 15. BASIC LONGITUDINAL, ELEVON EFFECTS

(I)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0005	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	-4.790	.000	.000	25.500	-.030	.000
R2F029	□	AMES 118-1-11 0A145A 01	.000	-5.000	.000	.000	25.000	.000	
RK0003	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
R2F012	△	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	25.000	.000	
RK0006	◁	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
R2F026	D	AMES 118-1-11 0A145A 01	.000	5.000	.000	.000	25.000	.000	

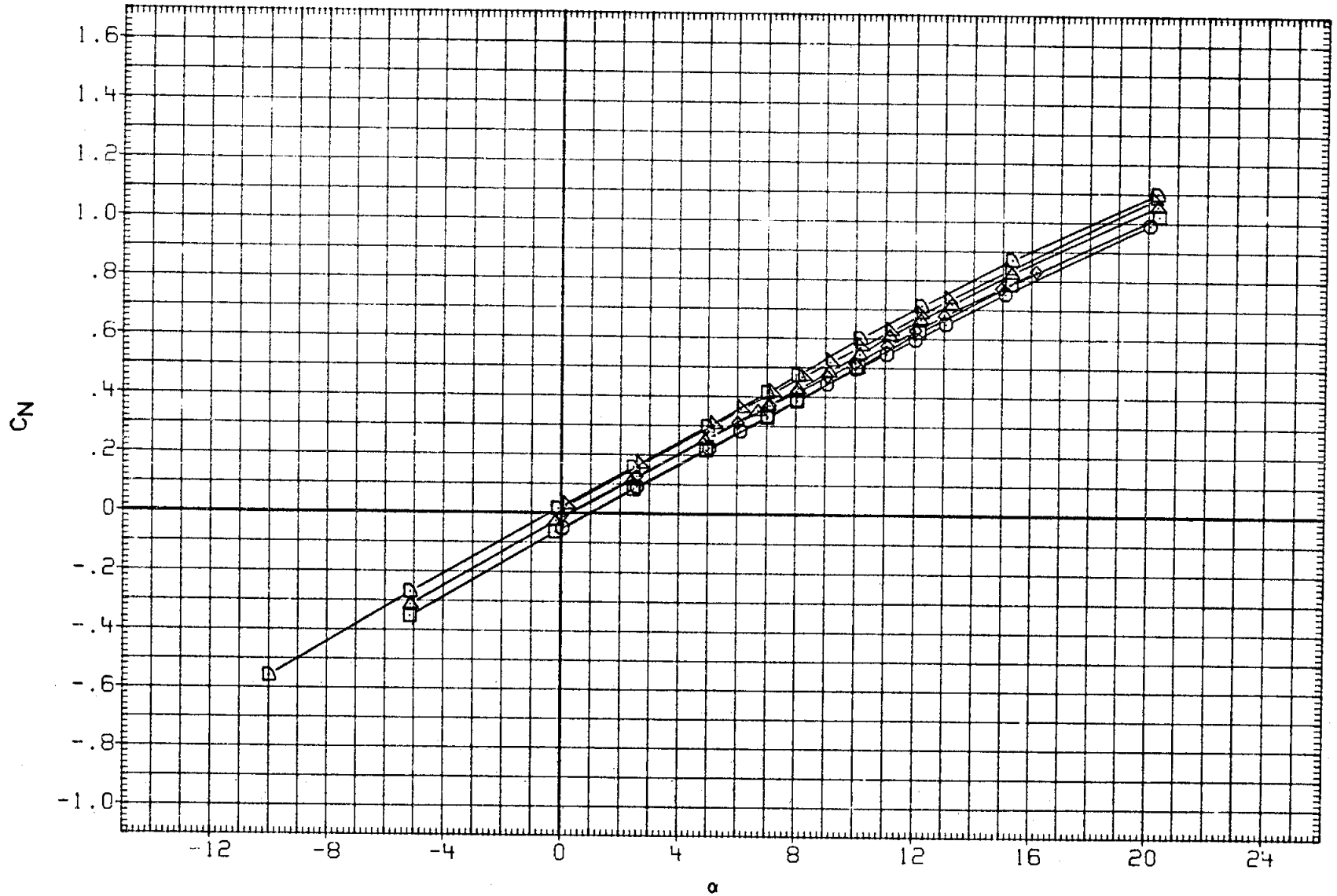

FIGURE 15. BASIC LONGITUDINAL, ELEVON EFFECTS

(I)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPOBRK	RUDDER	PHI
RK0005	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.790	.000	.000	25.500	-.030	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0006	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
R2F026	D	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

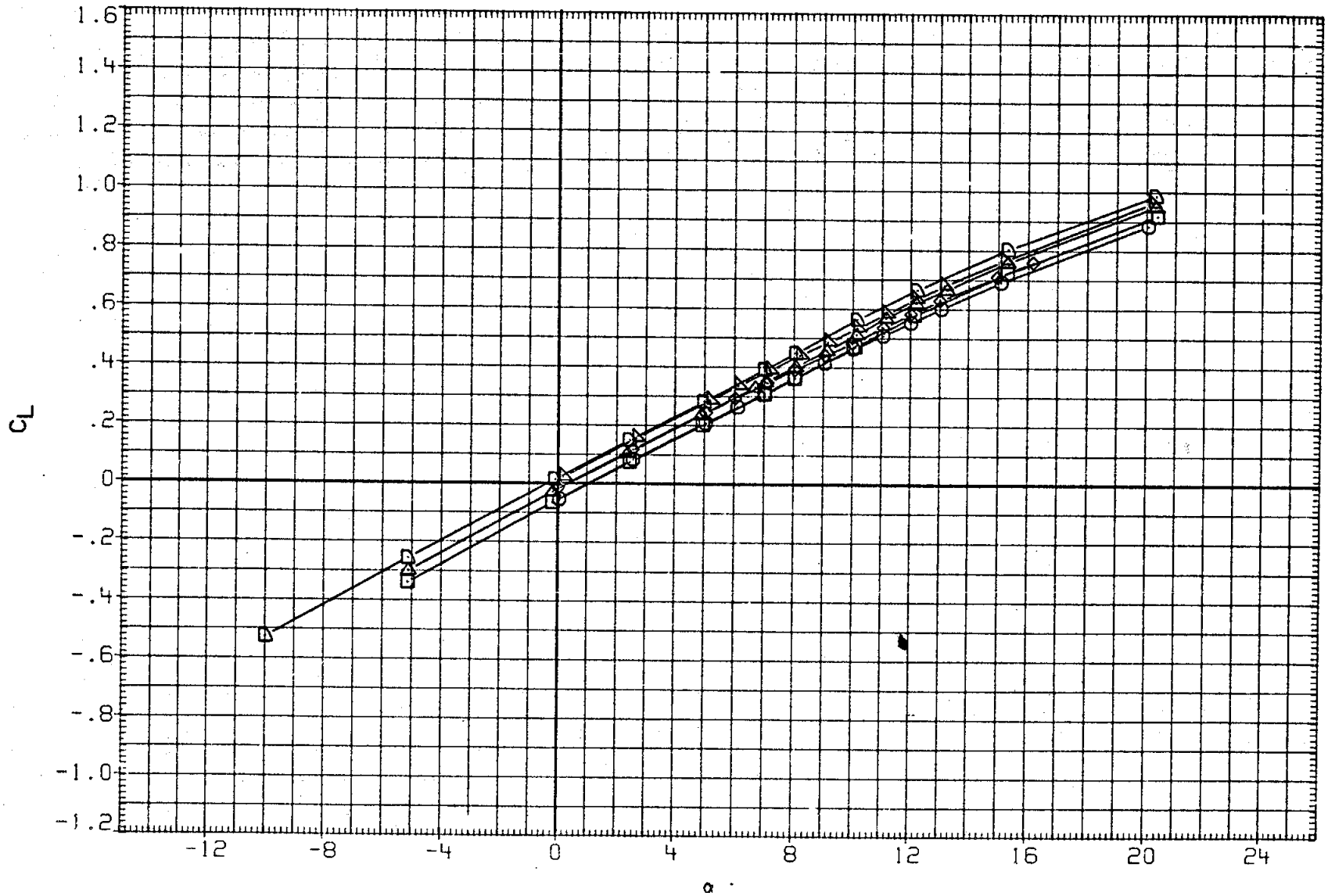

FIGURE 15. BASIC LONGITUDINAL, ELEVON EFFECTS

(I)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0005	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.790	.000	.000	25.500	-.030	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
R2F012	◁	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0006	▷	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
R2F026	▷	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

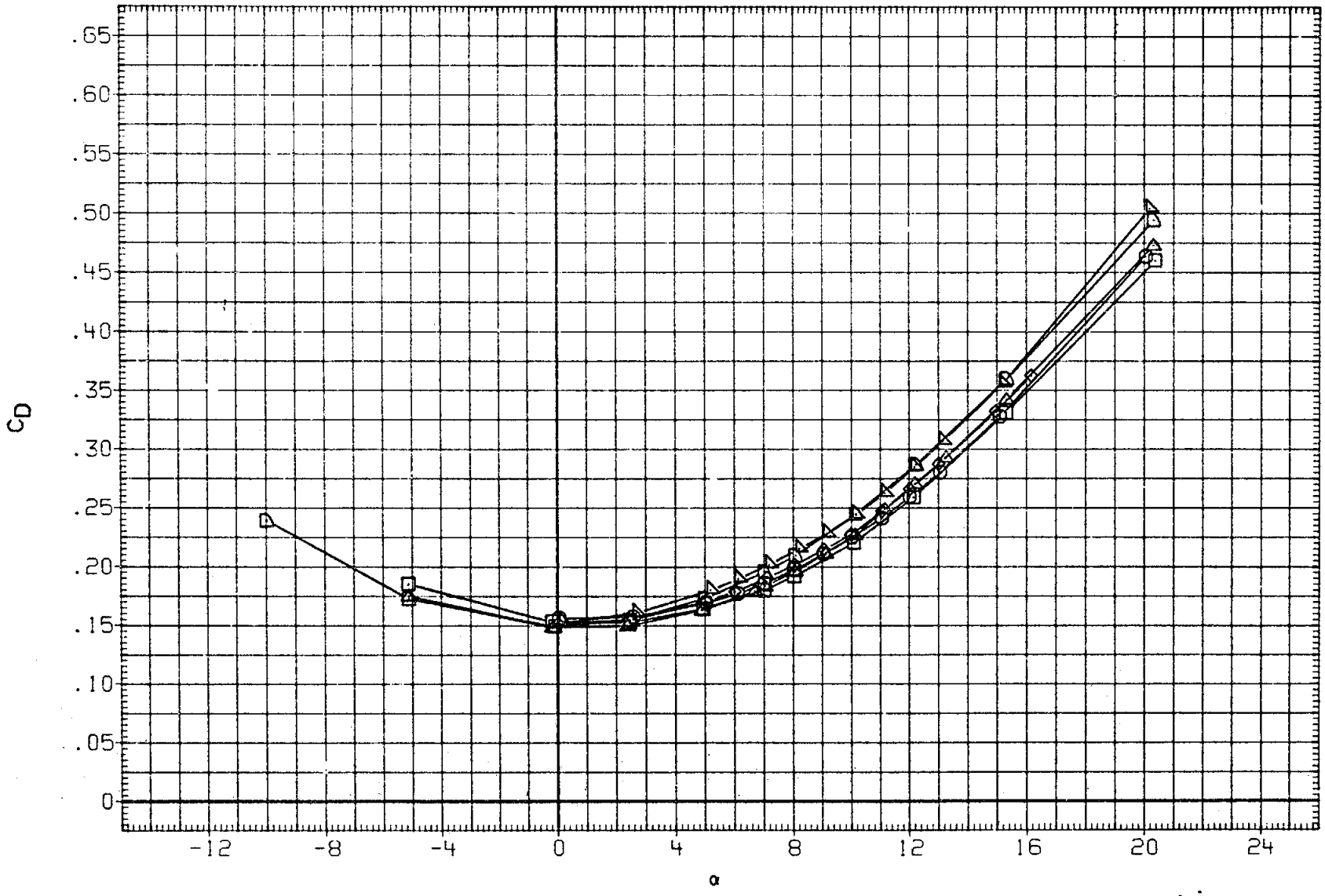

FIGURE 15. BASIC LONGITUDINAL, ELEVON EFFECTS

(I)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0005	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.790	.000	.000	25.500	-.030	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0006	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
R2F026	D	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

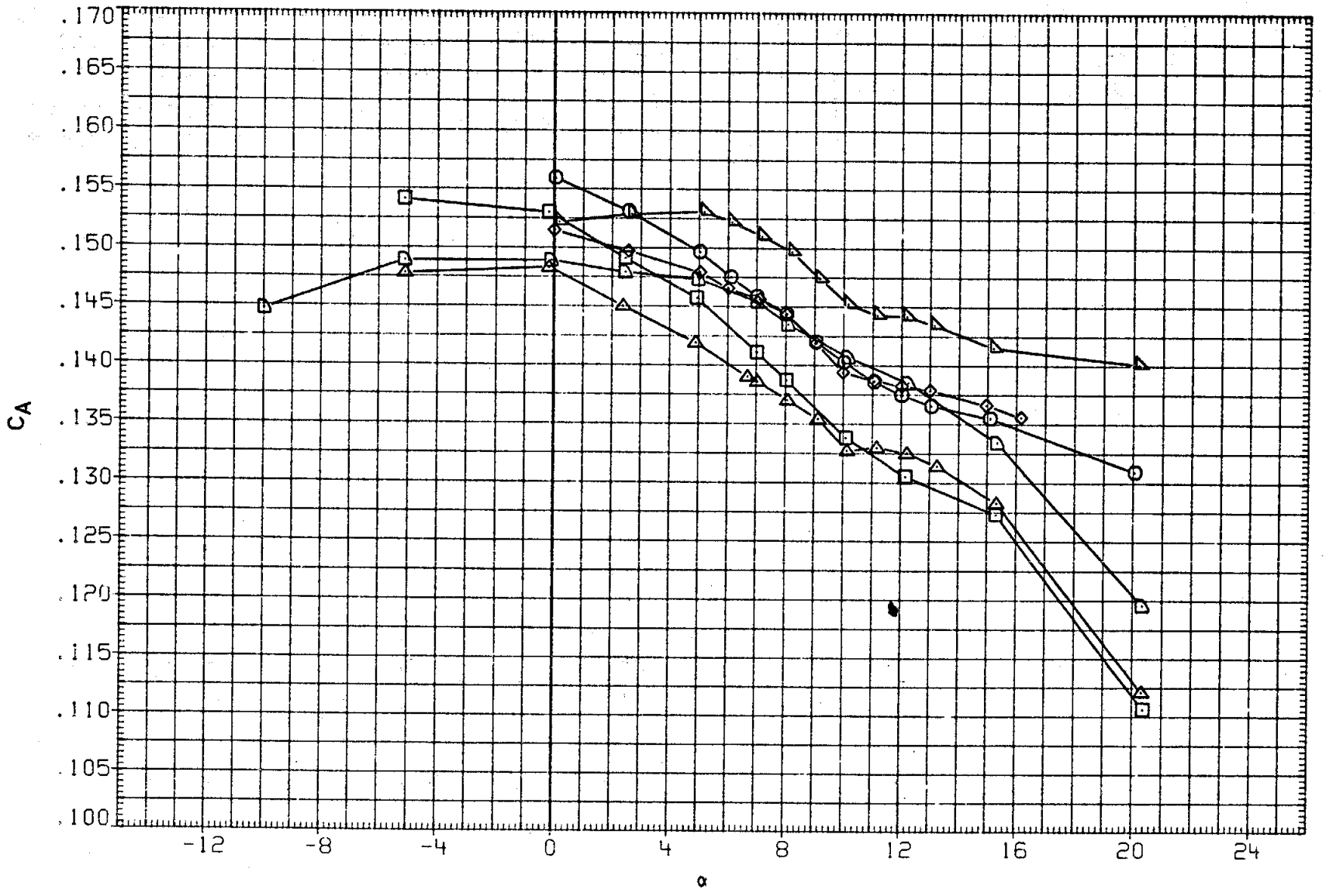

FIGURE 15. BASIC LONGITUDINAL, ELEVON EFFECTS

(I)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0005	○	DATA NOT AVAILABLE	.000	-4.790	.000	.000	25.500	-.030	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RK0003	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0006	◺	DATA NOT AVAILABLE	.000	4.920	-.010	.000	25.500	-.030	.000
R2F026	◺	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

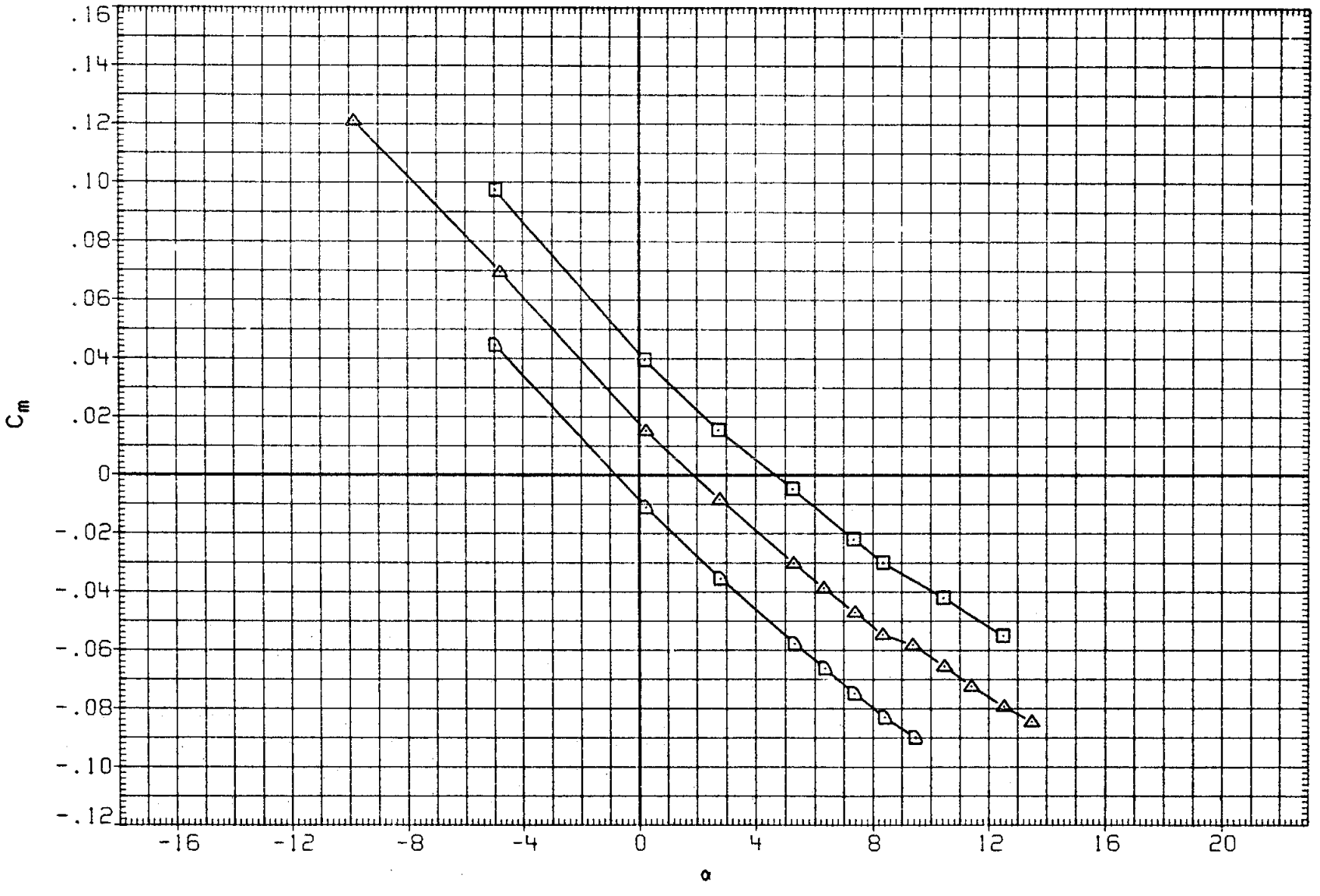

FIGURE 15. BASIC LONGITUDINAL, ELEVON EFFECTS

(J)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0005	○	DATA NOT AVAILABLE	.000	-4.790	.000	.000	25.500	-.030	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RK0003	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0006	◺	DATA NOT AVAILABLE	.000	4.920	-.010	.000	25.500	-.030	.000
R2F026	◗	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

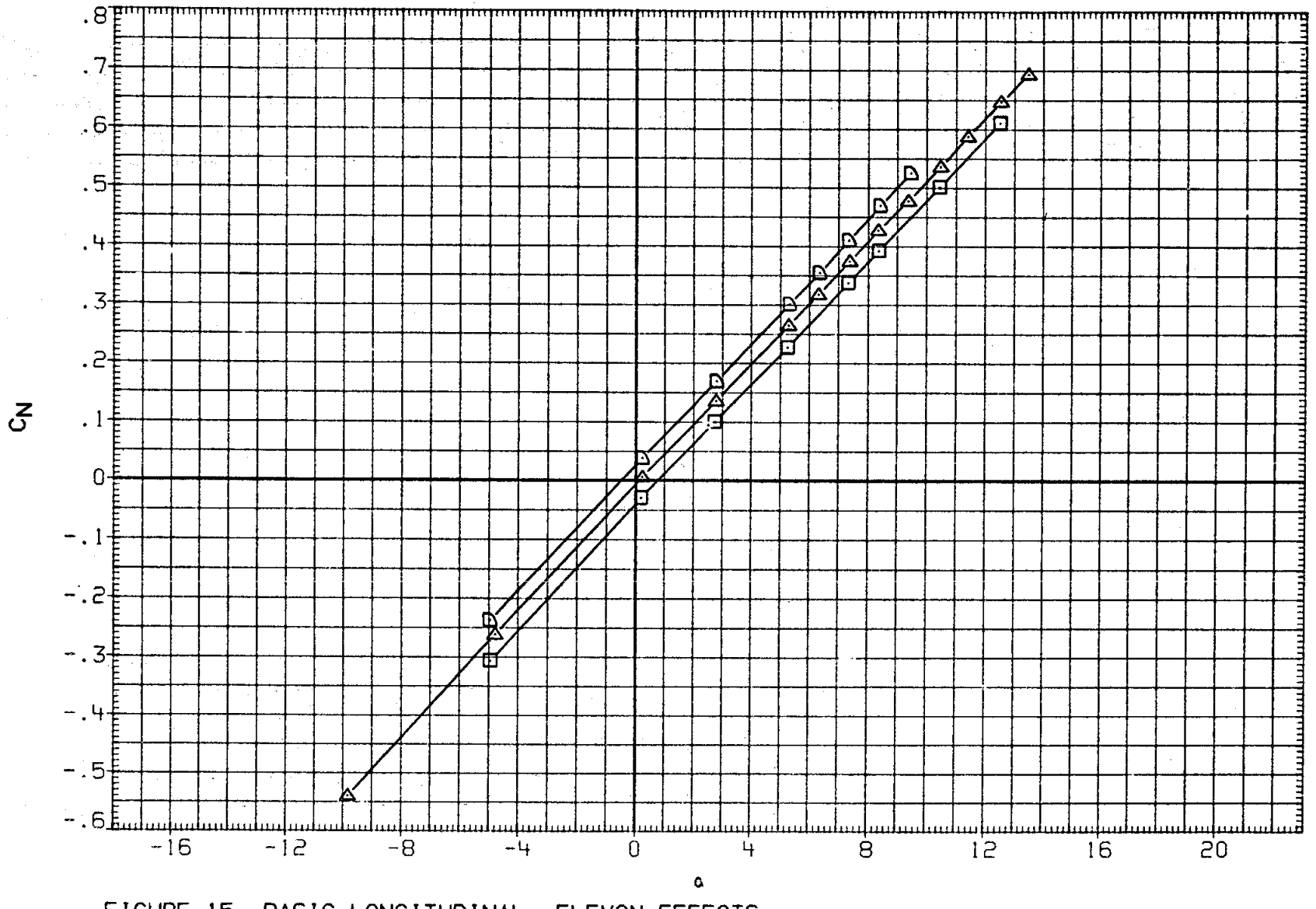

FIGURE 15. BASIC LONGITUDINAL, ELEVON EFFECTS

(J)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0005	○	DATA NOT AVAILABLE	.000	-4.790	.000	.000	25.500	-.030	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RK0003	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0006	◺	DATA NOT AVAILABLE	.000	4.920	-.010	.000	25.500	-.030	.000
R2F026	◻	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

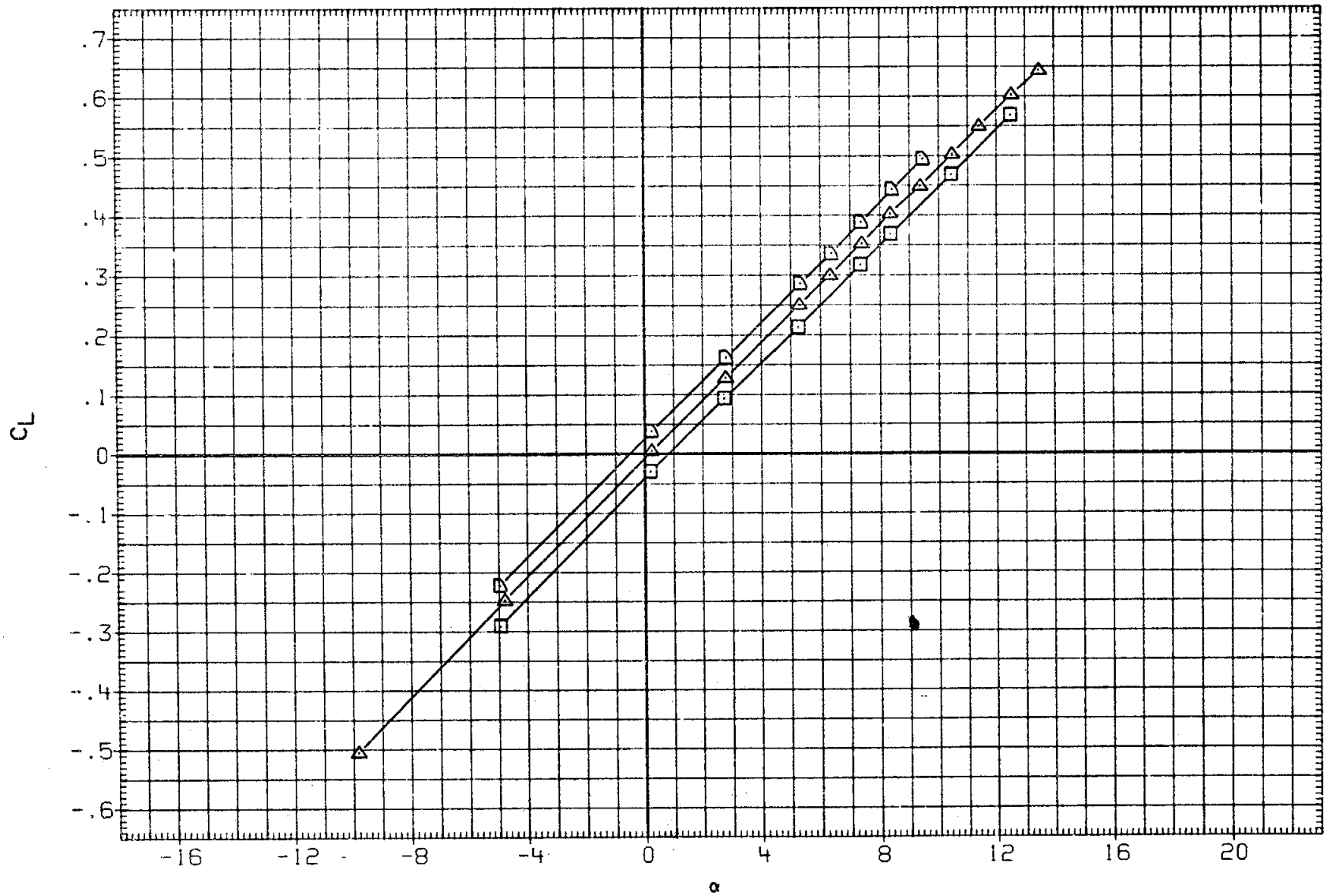

FIGURE 15. BASIC LONGITUDINAL, ELEVON EFFECTS

(J)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0005	○	DATA NOT AVAILABLE	.000	-4.790	.000	.000	25.500	-.030	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RK0003	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0006	◺	DATA NOT AVAILABLE	.000	4.920	-.010	.000	25.500	-.030	.000
R2F026	D	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

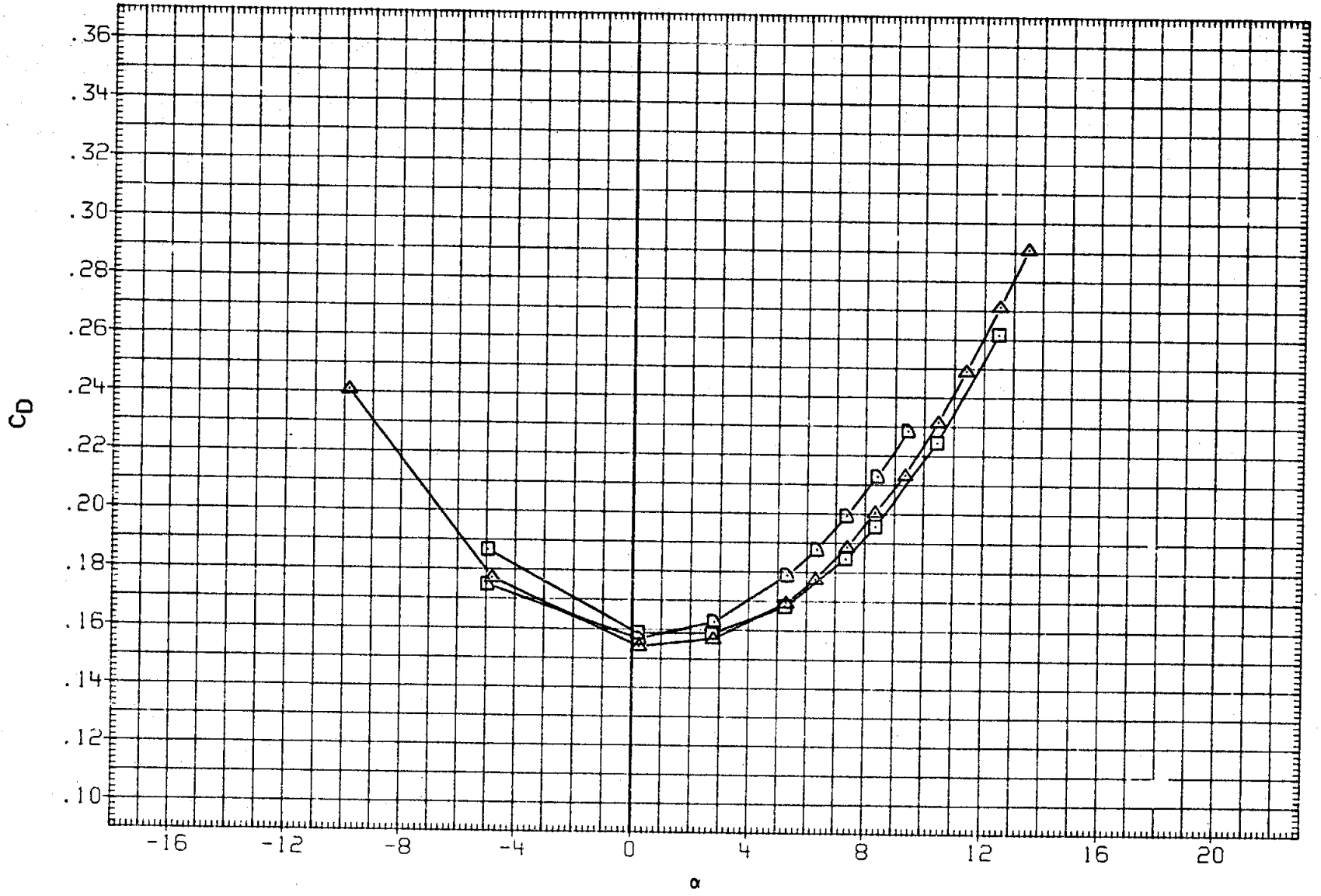

FIGURE 15. BASIC LONGITUDINAL, ELEVON EFFECTS

(J)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0005	○	DATA NOT AVAILABLE	.000	-4.790	.000	.000	25.500	-.030	.000
R2F029	□	AMES 118-1-11 OA145A 01	.000	-5.000	.000	.000	25.000	.000	
RK0003	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0006	◸	DATA NOT AVAILABLE	.000	4.920	-.010	.000	25.500	-.030	.000
R2F026	D	AMES 118-1-11 OA145A 01	.000	5.000	.000	.000	25.000	.000	

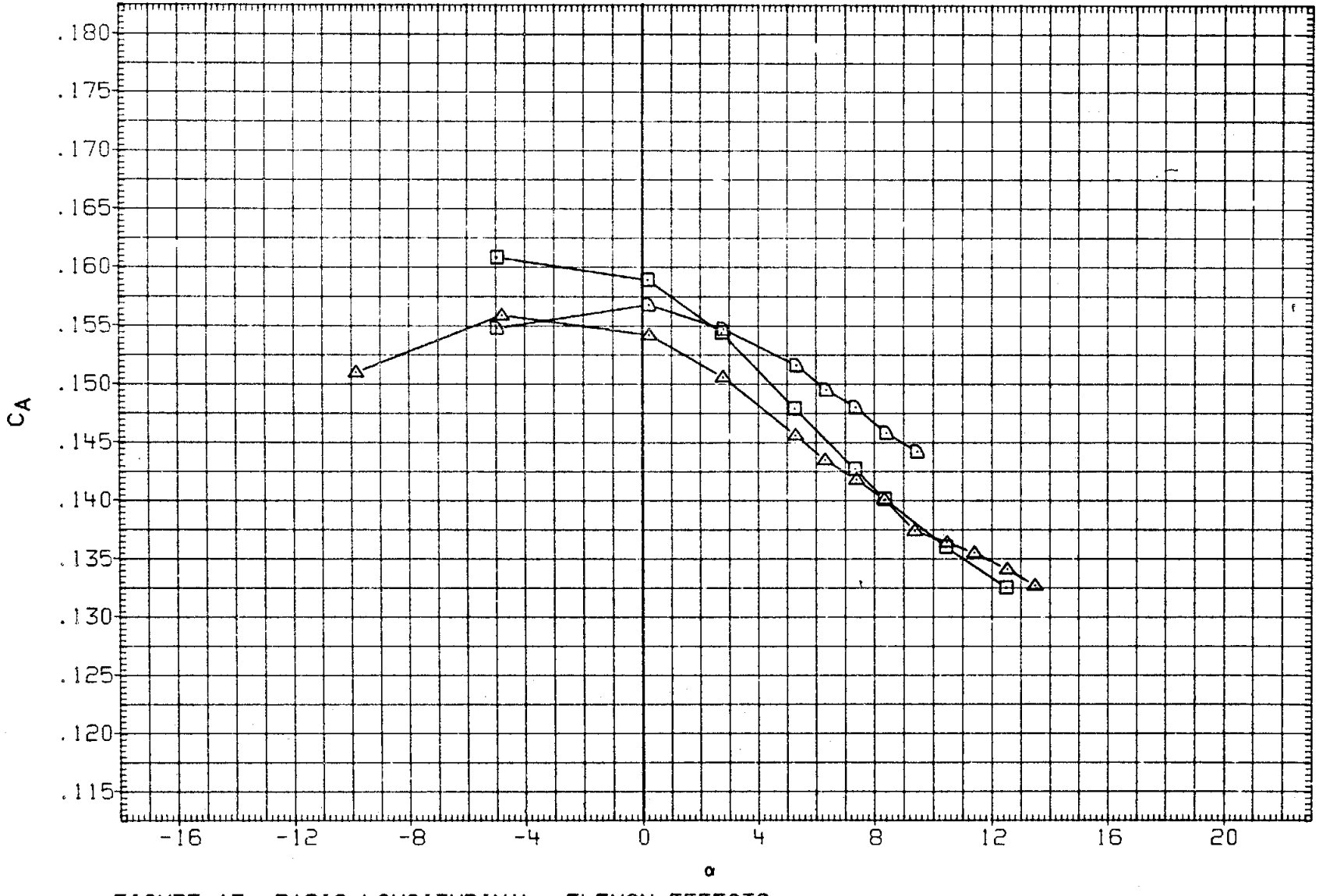

FIGURE 15. BASIC LONGITUDINAL, ELEVON EFFECTS

(J)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
R2F034	○	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RKN033	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000

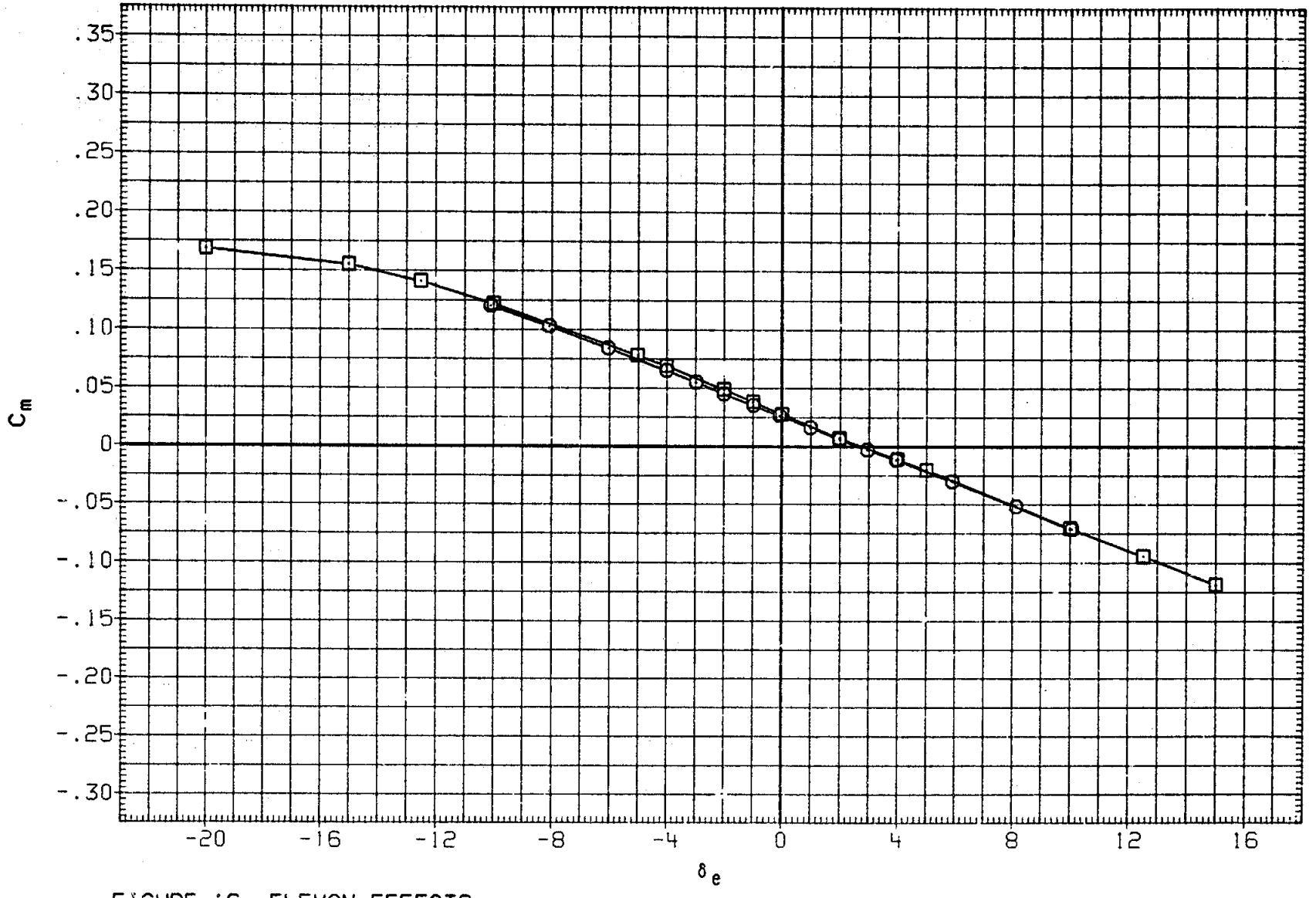

FIGURE 16. ELEVON EFFECTS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
R2F034	○	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RKN033	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000

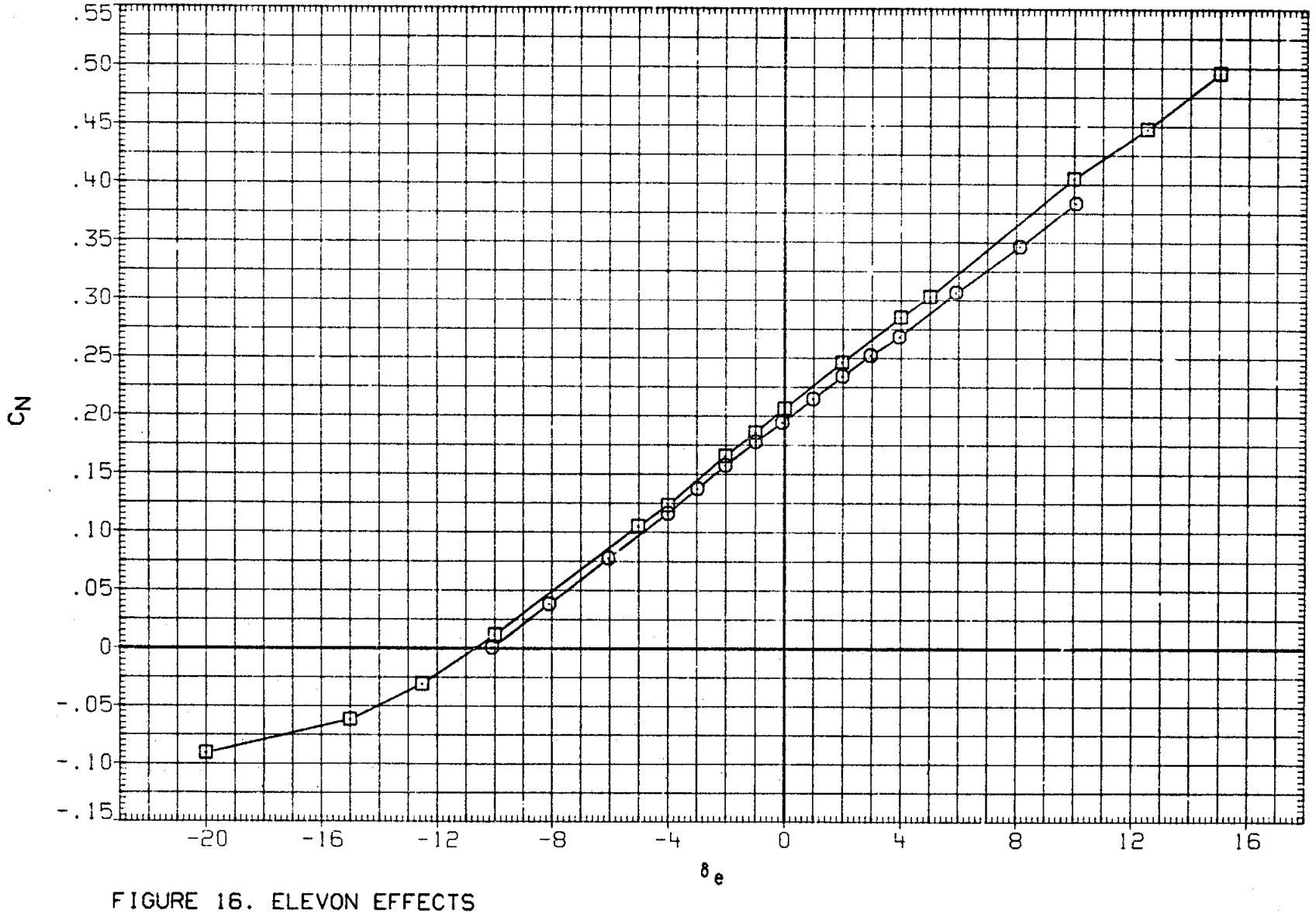

FIGURE 16. ELEVON EFFECTS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION
R2F034	○	AMES 118-1-11 OA145A 01
RKN033	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.

ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
5.000	.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	25.000	.000	.000

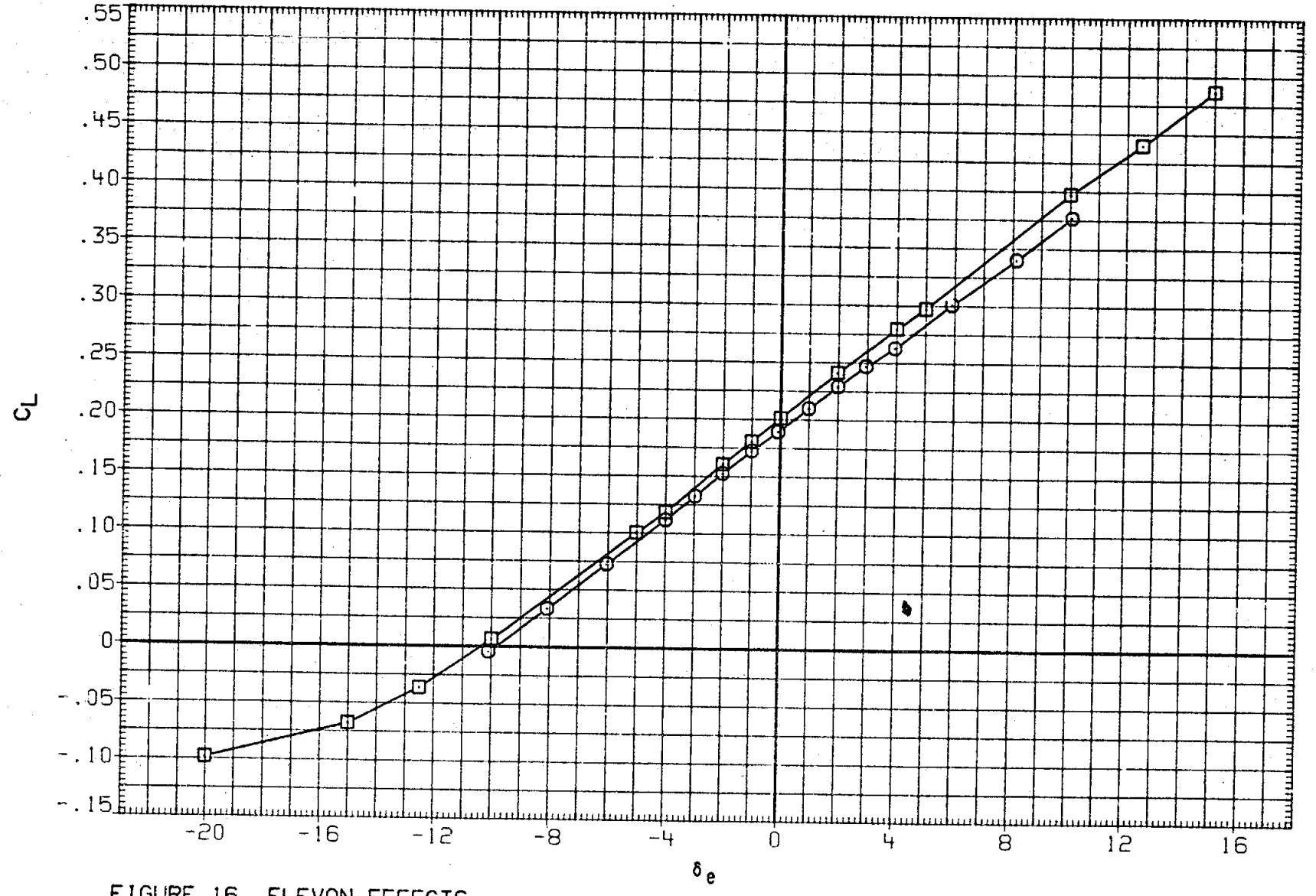

FIGURE 16. ELEVON EFFECTS

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
R2F034	○	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RKN033	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000

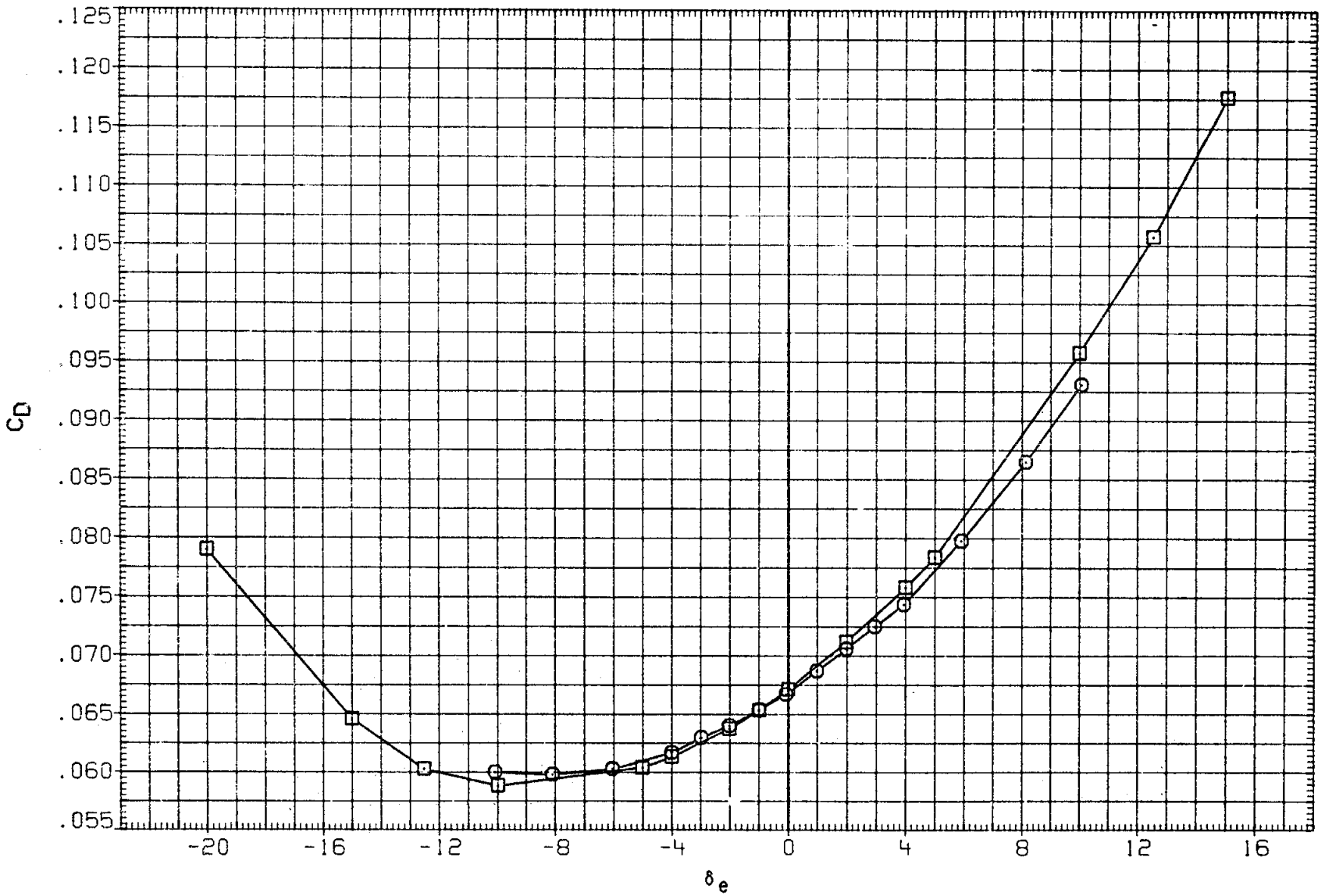

FIGURE 16. ELEVON EFFECTS

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION
R2F034	○	AMES 118-1-11 OA145A 01
RKN033	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.

ALPHA	BETA	AILRON	BOFLAP	SPDBRK	RUDDER	PHI
5.000	.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	25.000	.000	.000

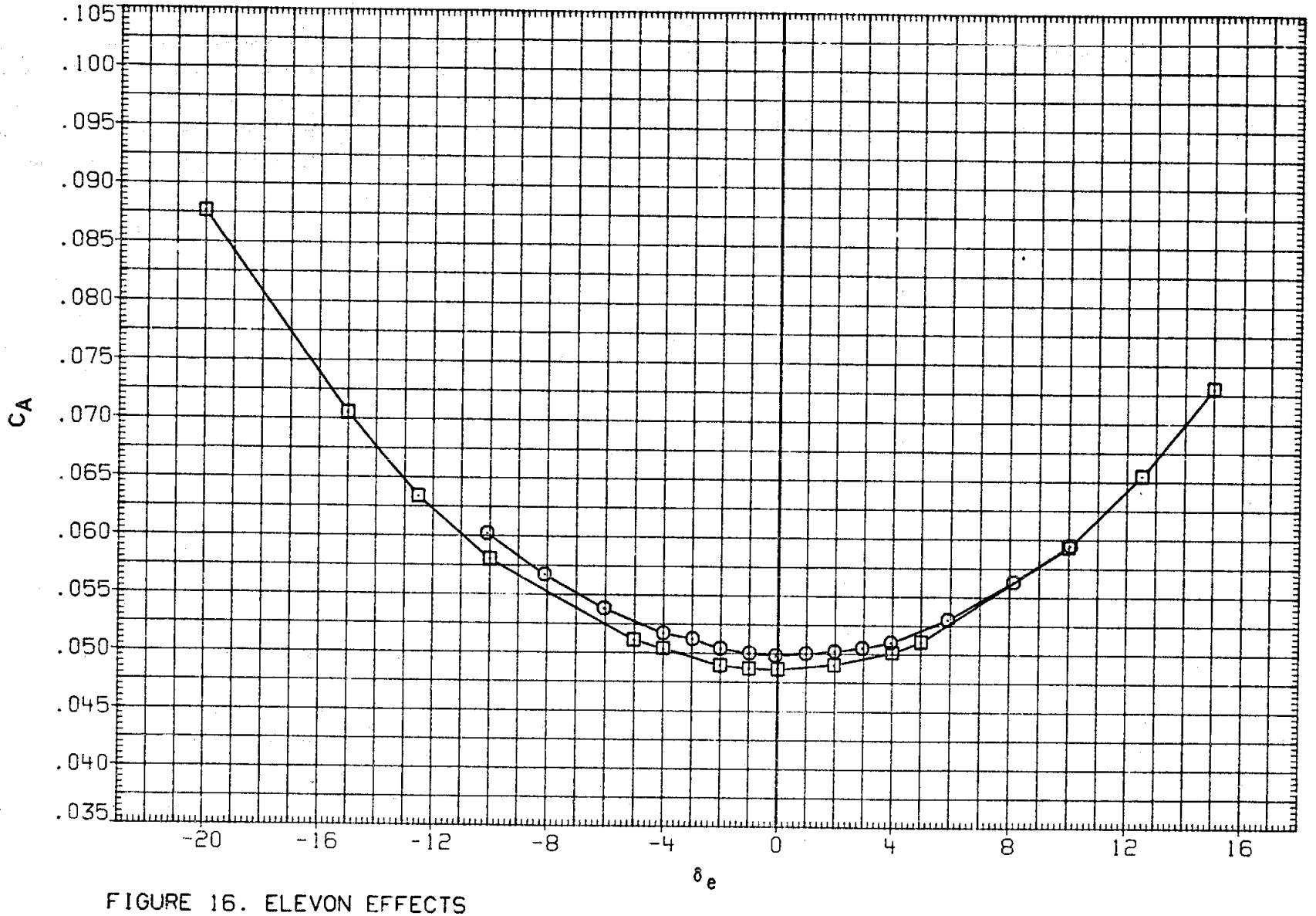

FIGURE 16. ELEVON EFFECTS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
R2F034	○	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RKN033	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000

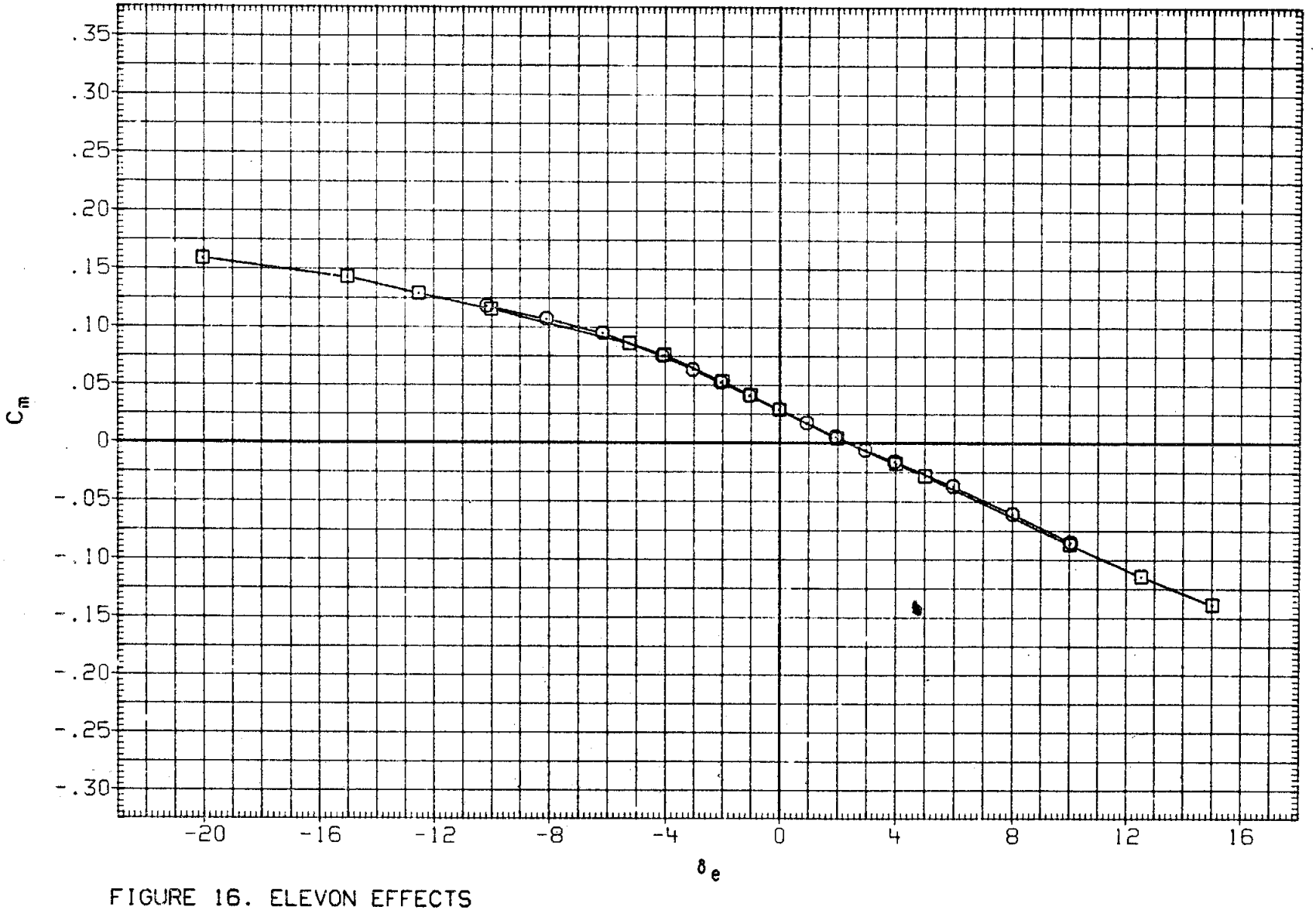

FIGURE 16. ELEVON EFFECTS

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION
R2F034	○	AMES 118-1-11 OA145A 01
RKN033	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.

ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
5.000	.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	25.000	.000	.000

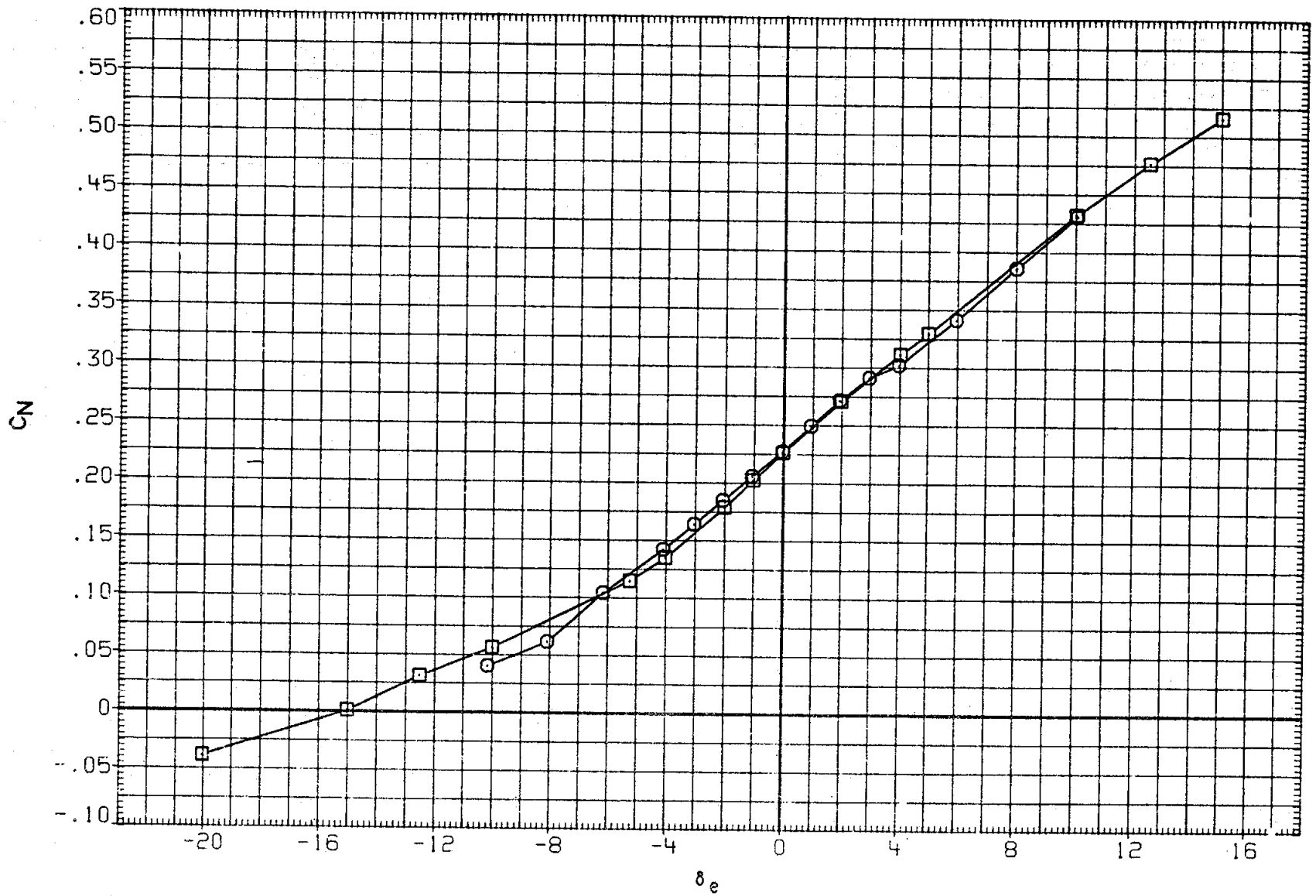

FIGURE 16. ELEVON EFFECTS

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
R2F034	○	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RKN033	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000

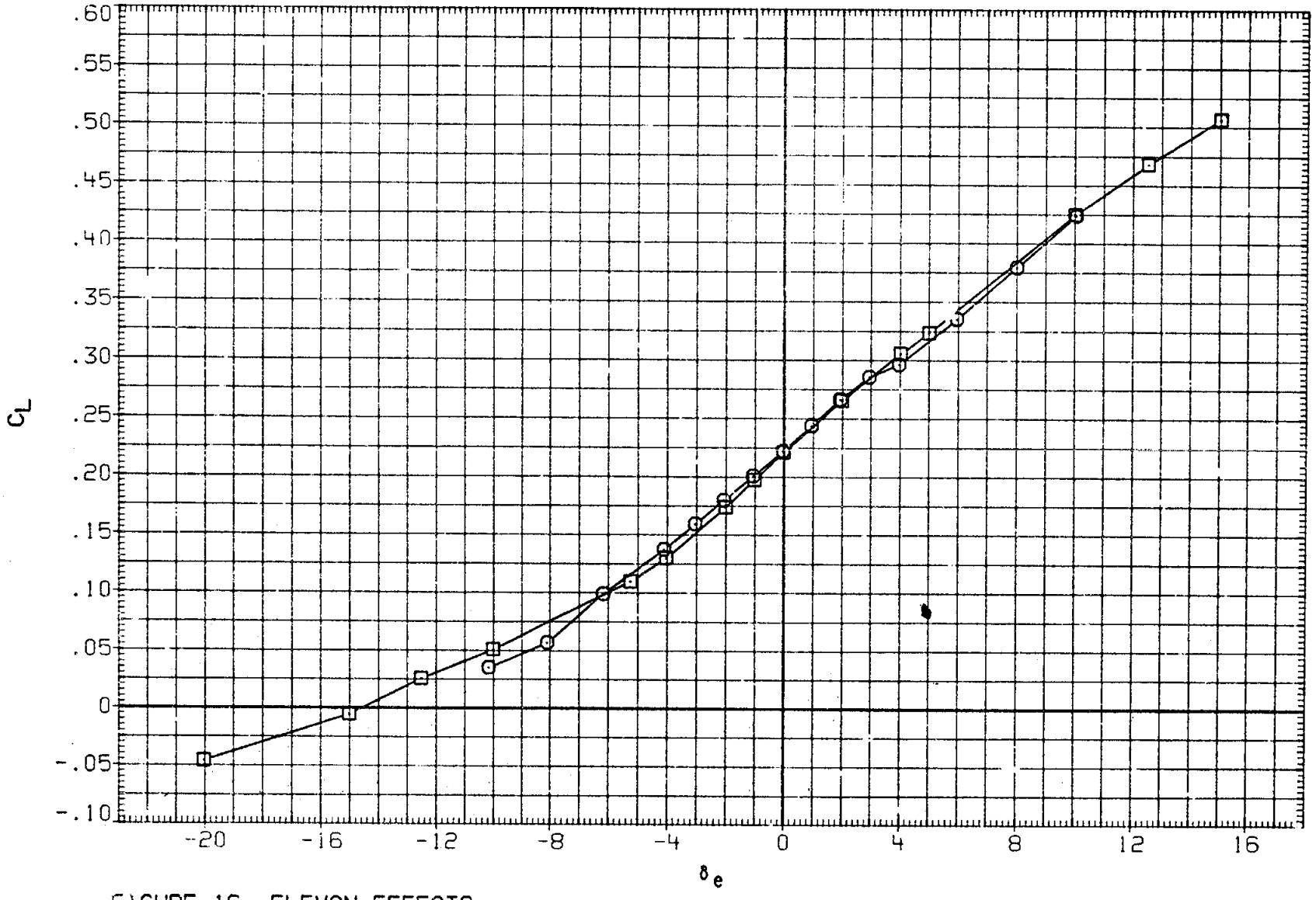

FIGURE 16. ELEVON EFFECTS

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
R2F034	○	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RKN033	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000

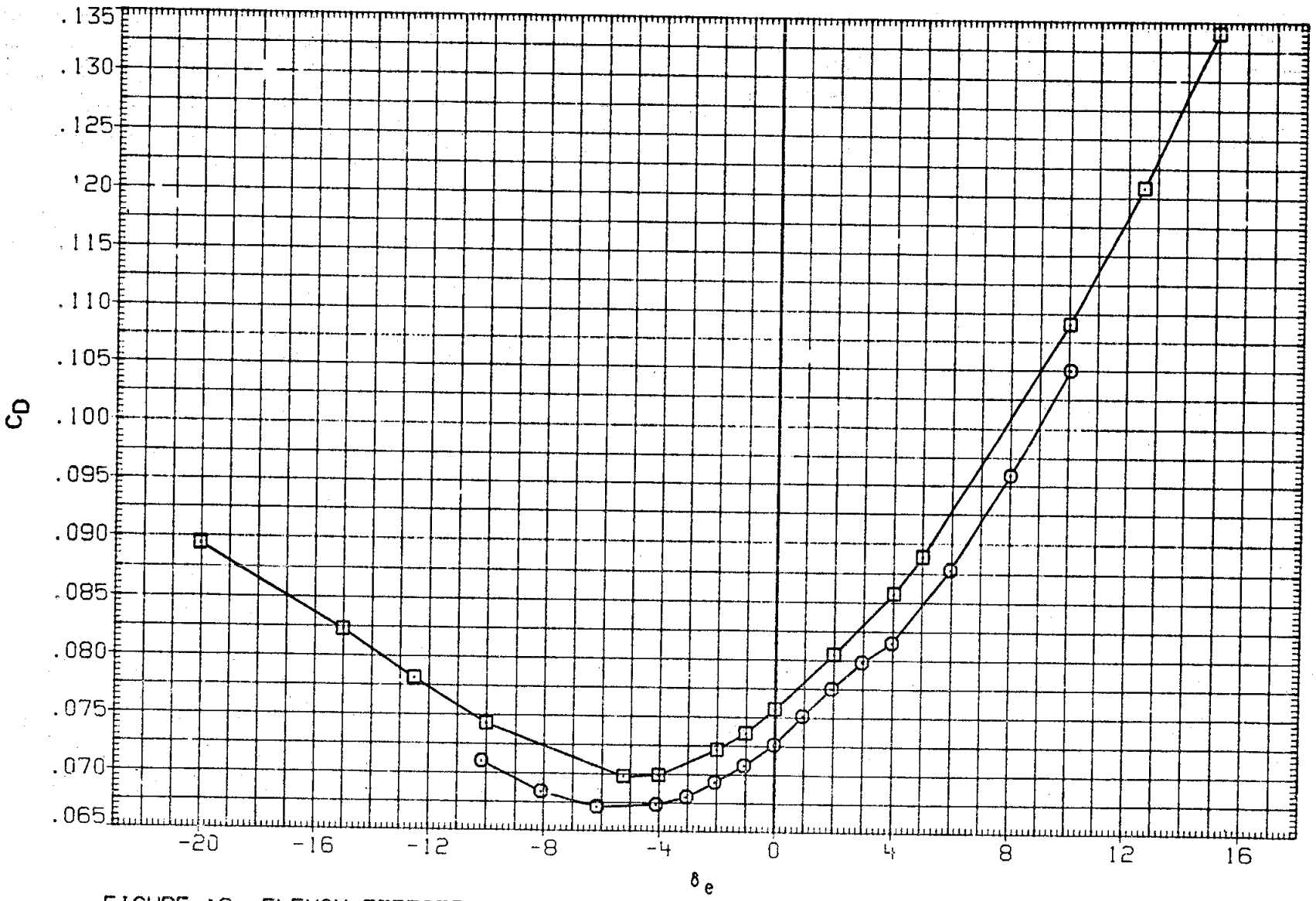

FIGURE 16. ELEVON EFFECTS

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
R2F034	○	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RKN033	□	LARC 16FT TWT 3261OA270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000

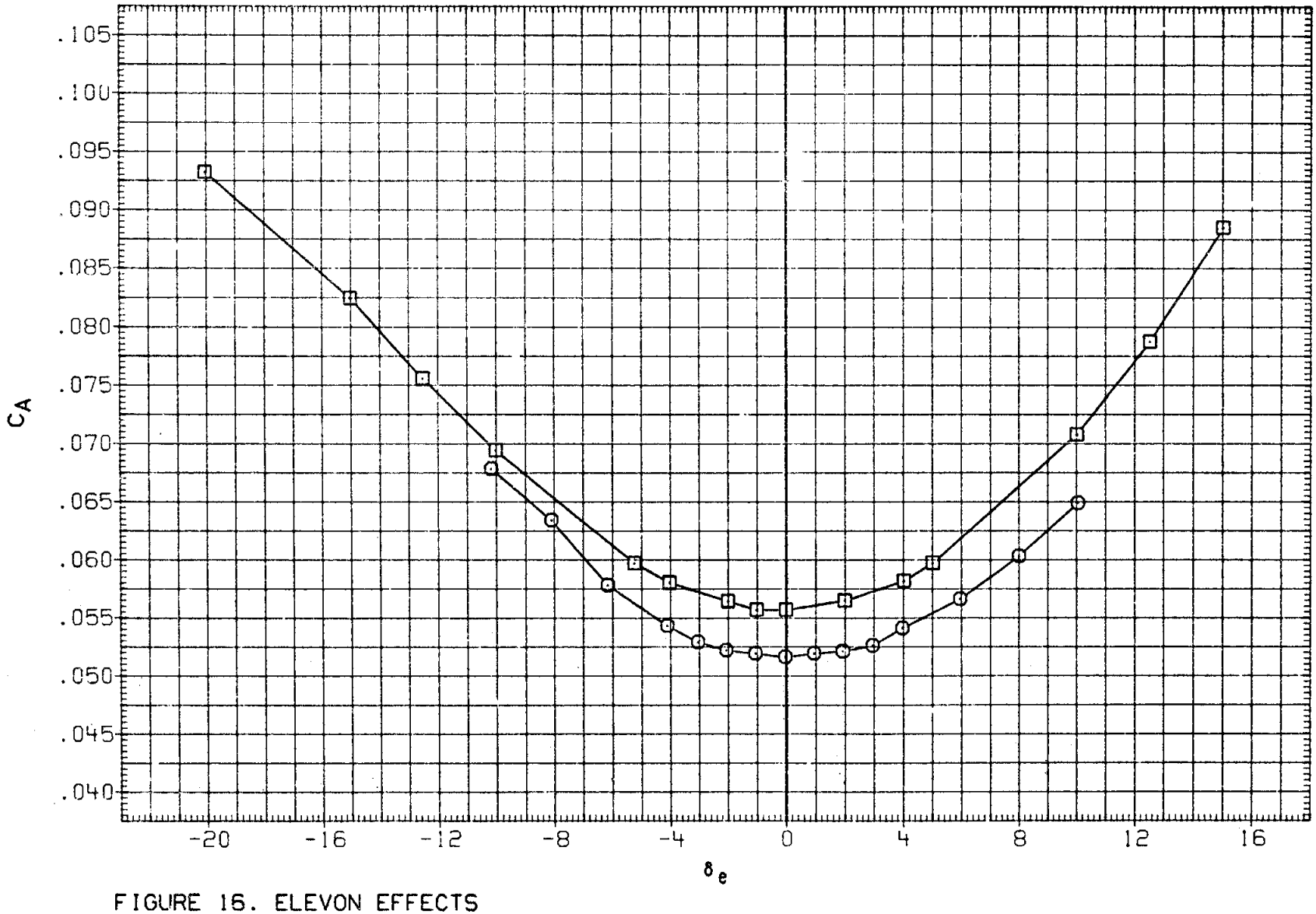

FIGURE 16. ELEVON EFFECTS

(B) MACH = .80

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
R2F034	○	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RKN033	□	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	.000

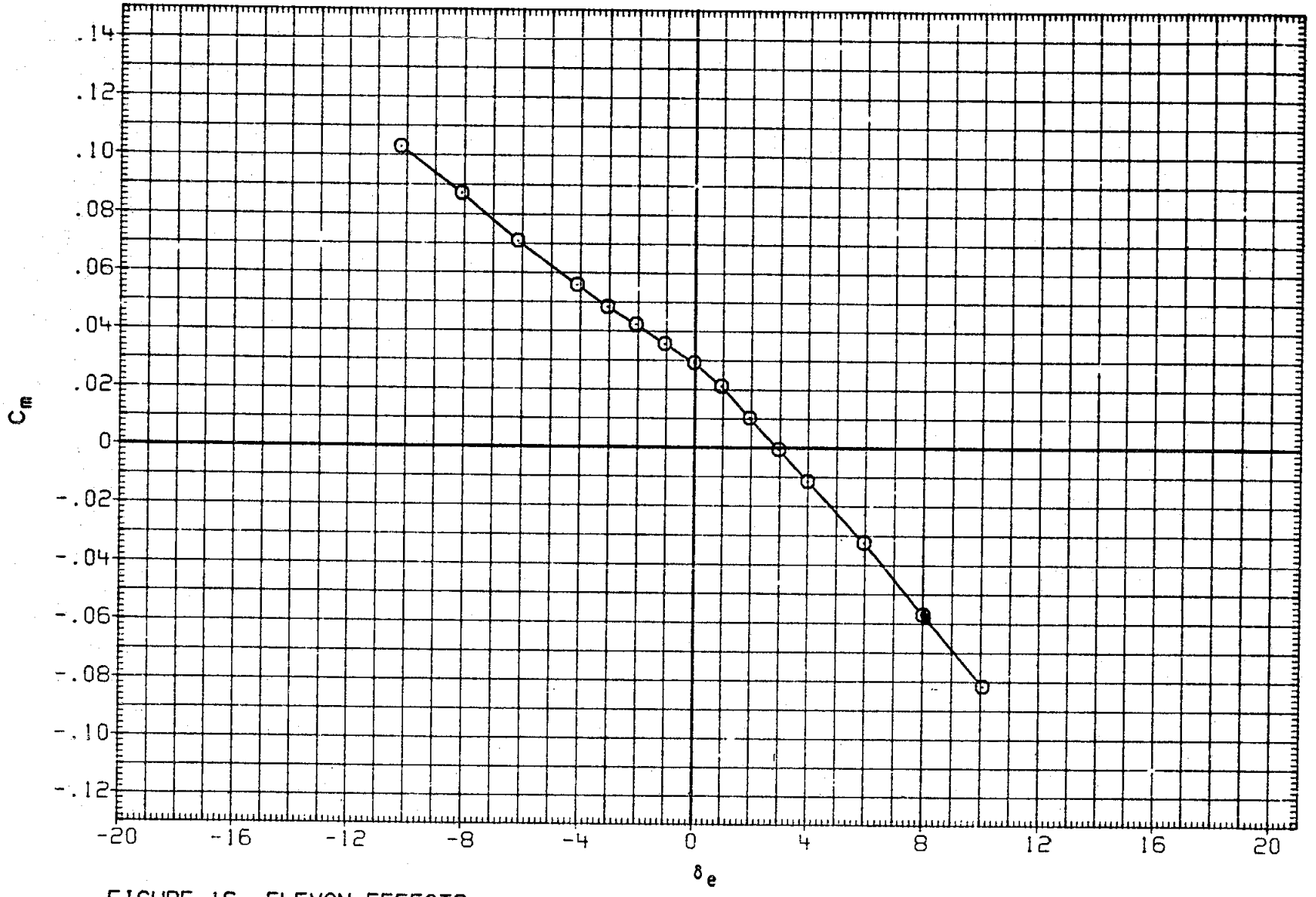

FIGURE 16. ELEVON EFFECTS

(C) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
R2F034	○	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RKN033	□	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	.000

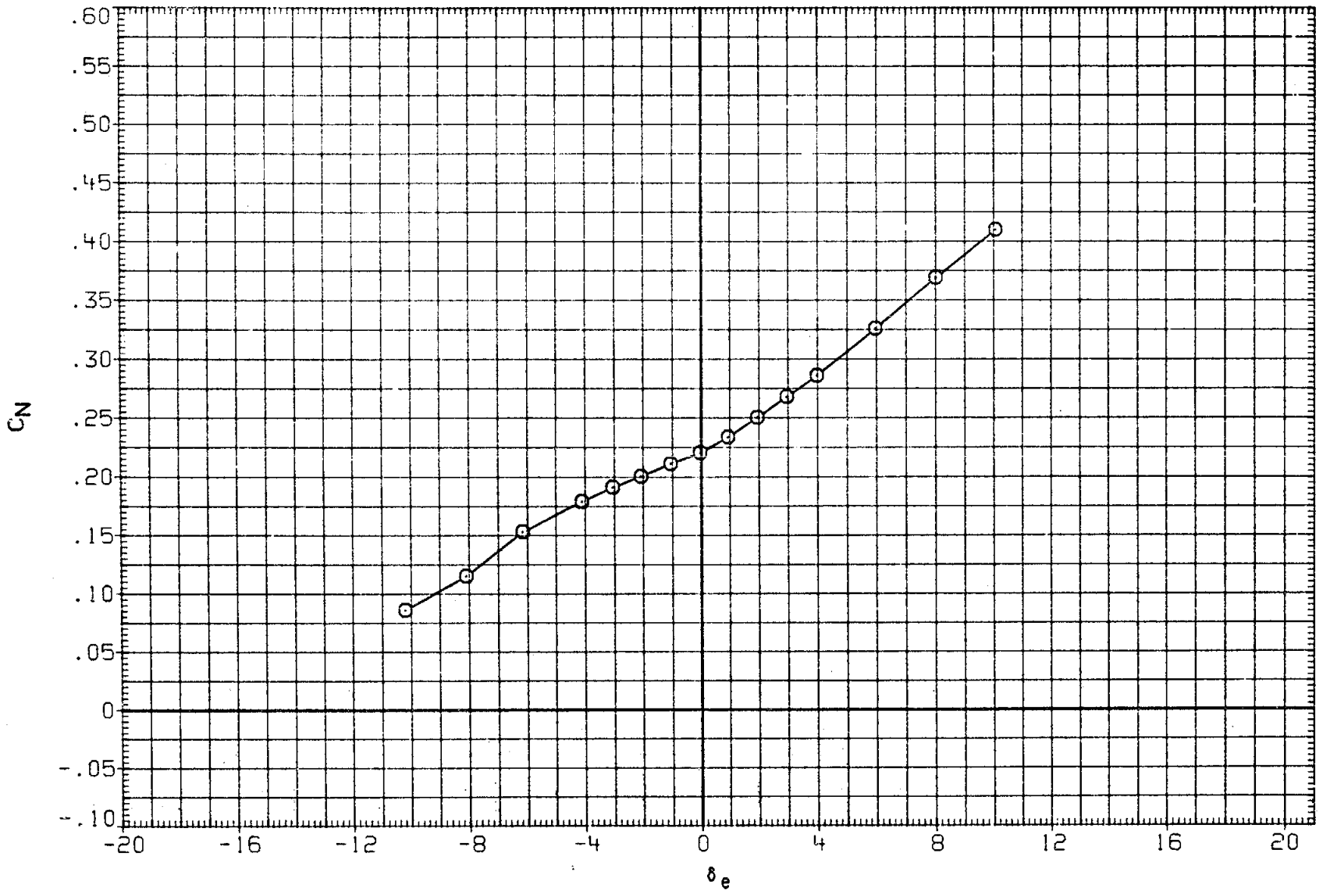

FIGURE 16. ELEVON EFFECTS

(C) MACH = .90

DATA SET	SYMBOL	CONFIGURATION
R2F034	○	AMES 118-1-11 OA145A 01
RKN033	□	DATA NOT AVAILABLE

ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
5.000	.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	25.000	.000	.000

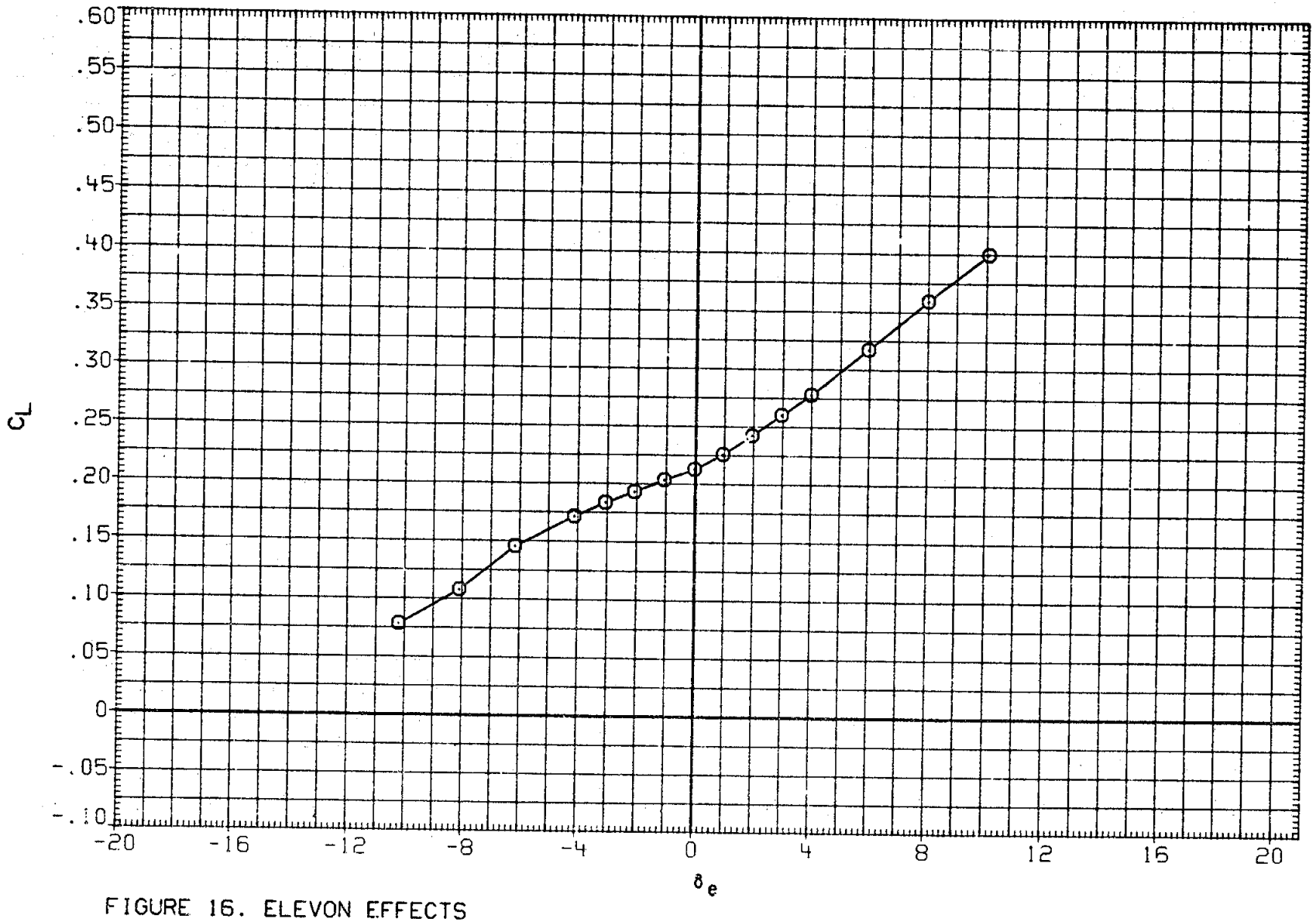

FIGURE 16. ELEVON EFFECTS

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
R2F034	○	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RKN033	□	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	.000

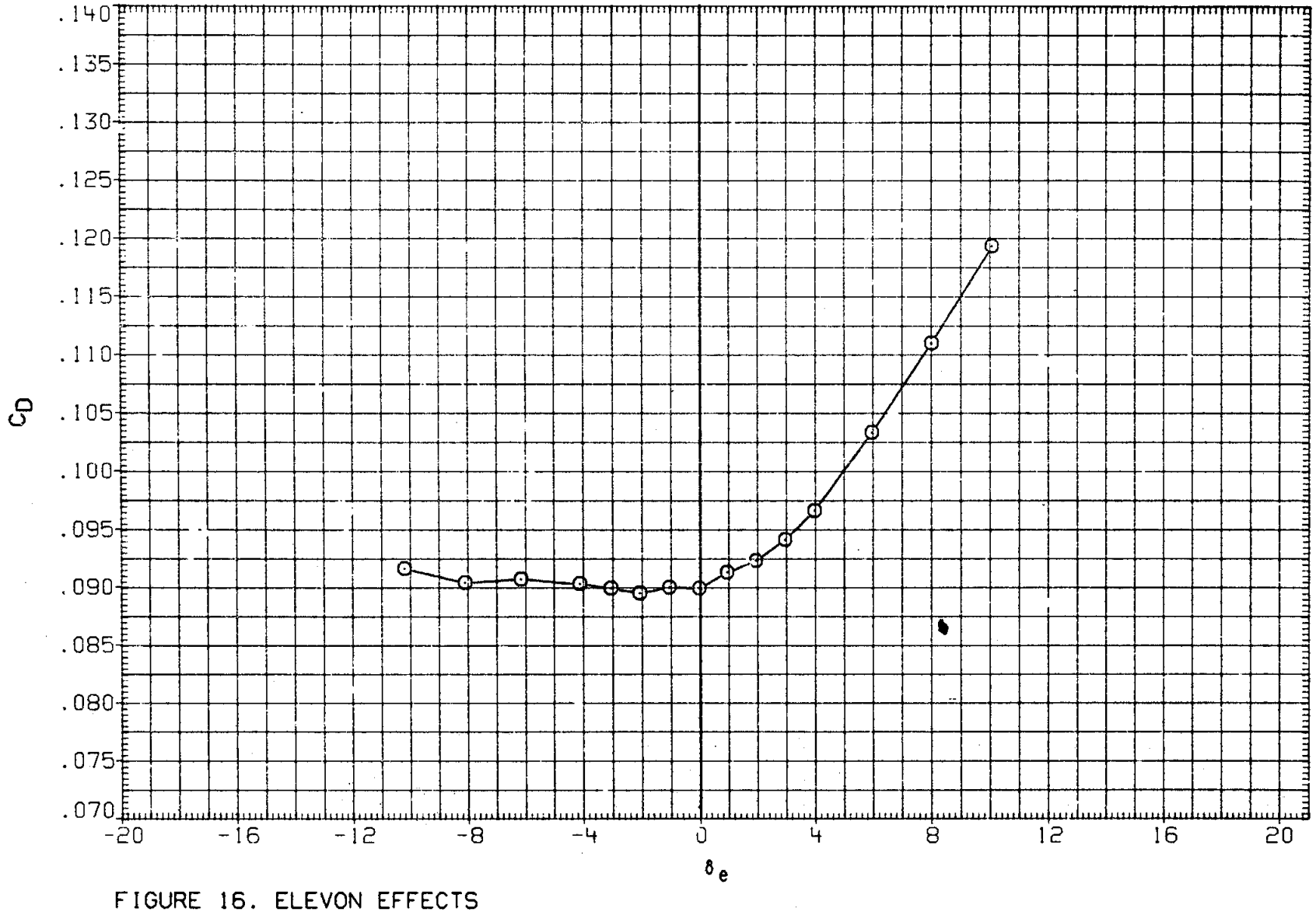

FIGURE 16. ELEVON EFFECTS

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION
R2F034	○	AMES 118-1-11 OA1H5A 01
RKN033	□	DATA NOT AVAILABLE

ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
5.000	.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	25.000	.000	.000

FIGURE 16. ELEVON EFFECTS

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
R2F034	○	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RKN033	□	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	.000

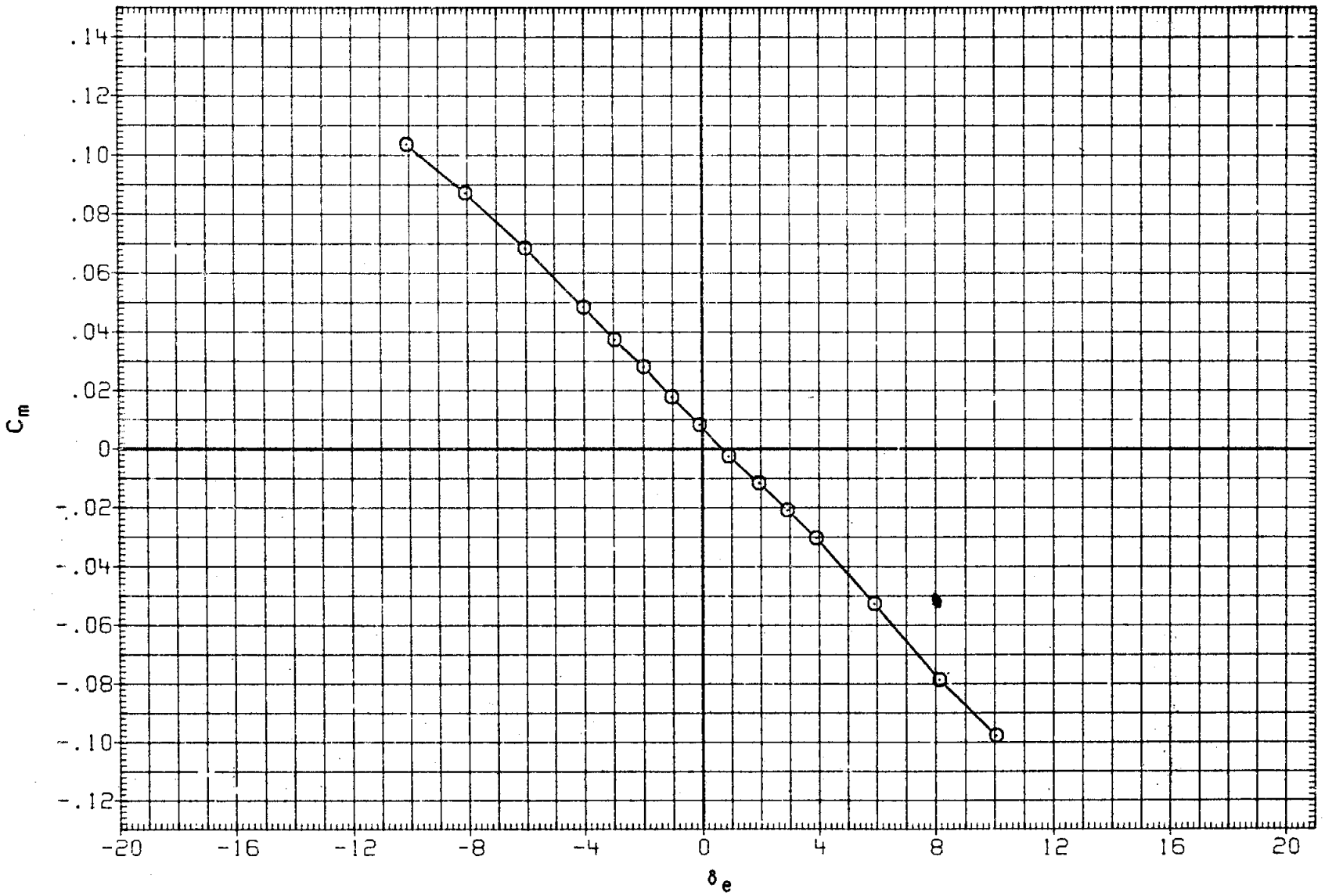

FIGURE 16. ELEVON EFFECTS

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION
R2F034	○	AMES 118-1-11 OA145A 01
RKN033	□	DATA NOT AVAILABLE

ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
5.000	.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	25.000	.000	.000

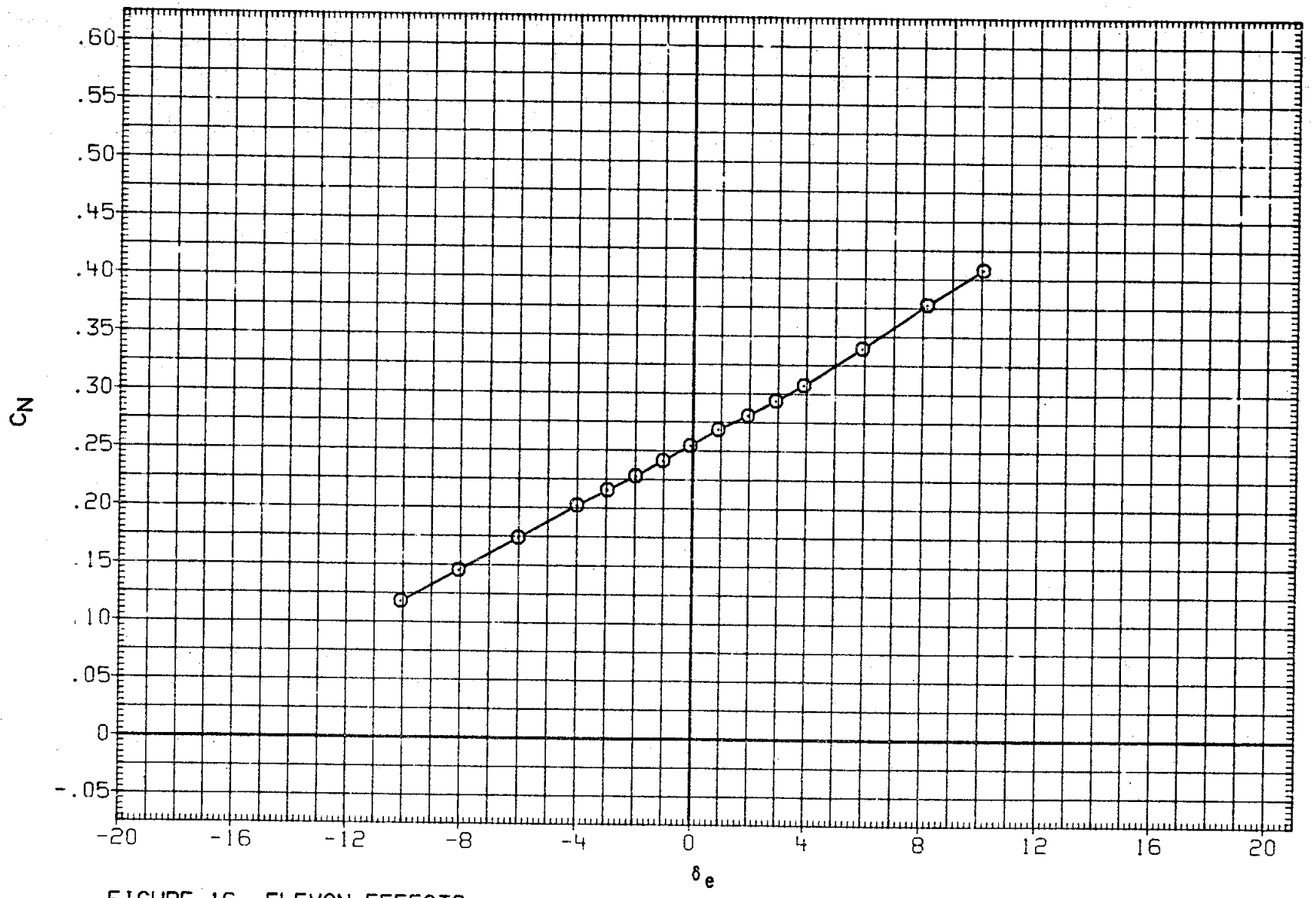

FIGURE 16. ELEVON EFFECTS

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION
R2F034	○	AMES 118-1-11 OA145A 01
RKN033	□	DATA NOT AVAILABLE

ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
5.000	.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	25.000	.000	.000

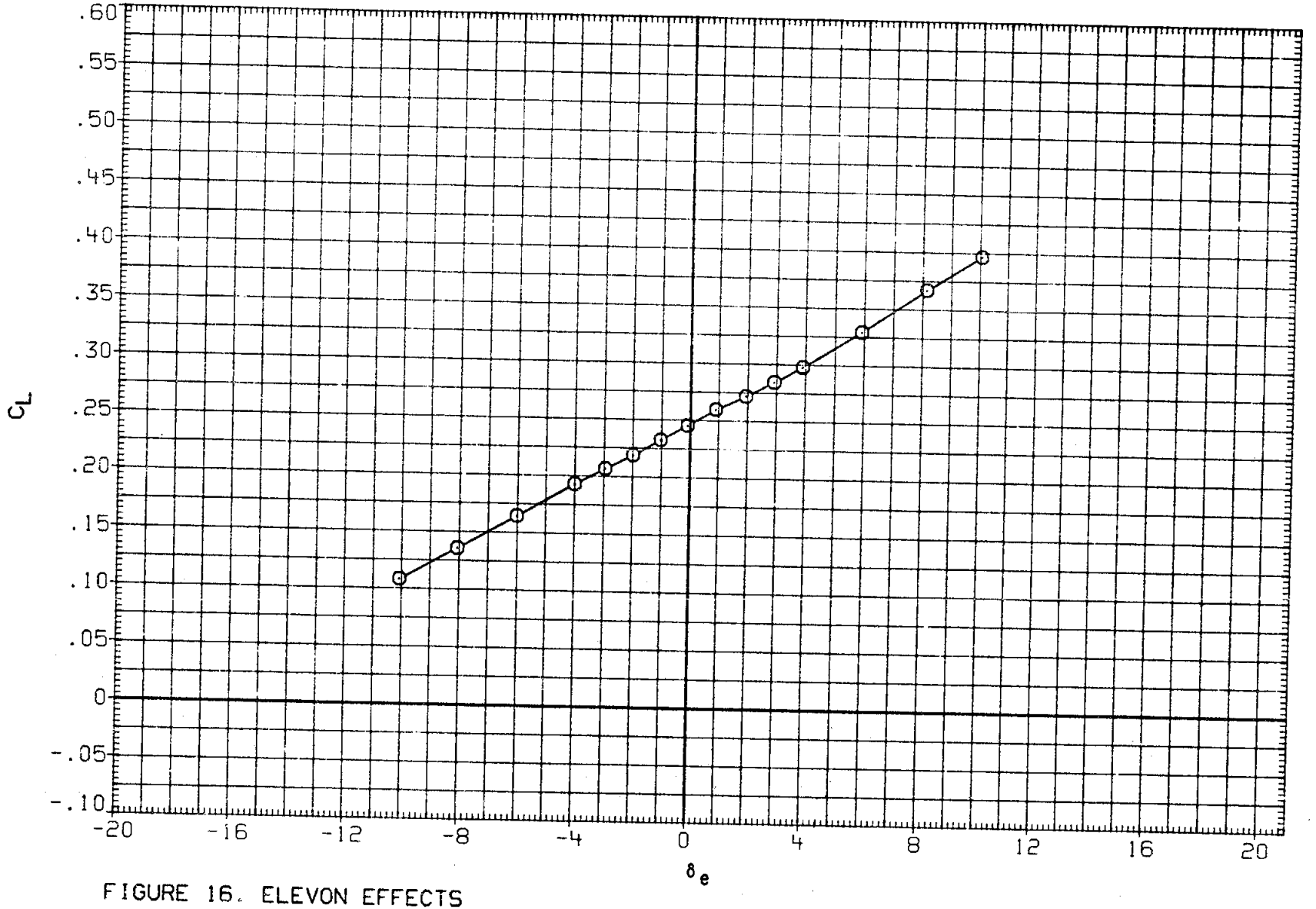

FIGURE 16. ELEVON EFFECTS

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION
R2F034	○	AMES 118-1-11 OA145A 01
RKN033	□	DATA NOT AVAILABLE

ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
5.000	.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	25.000	.000	.000

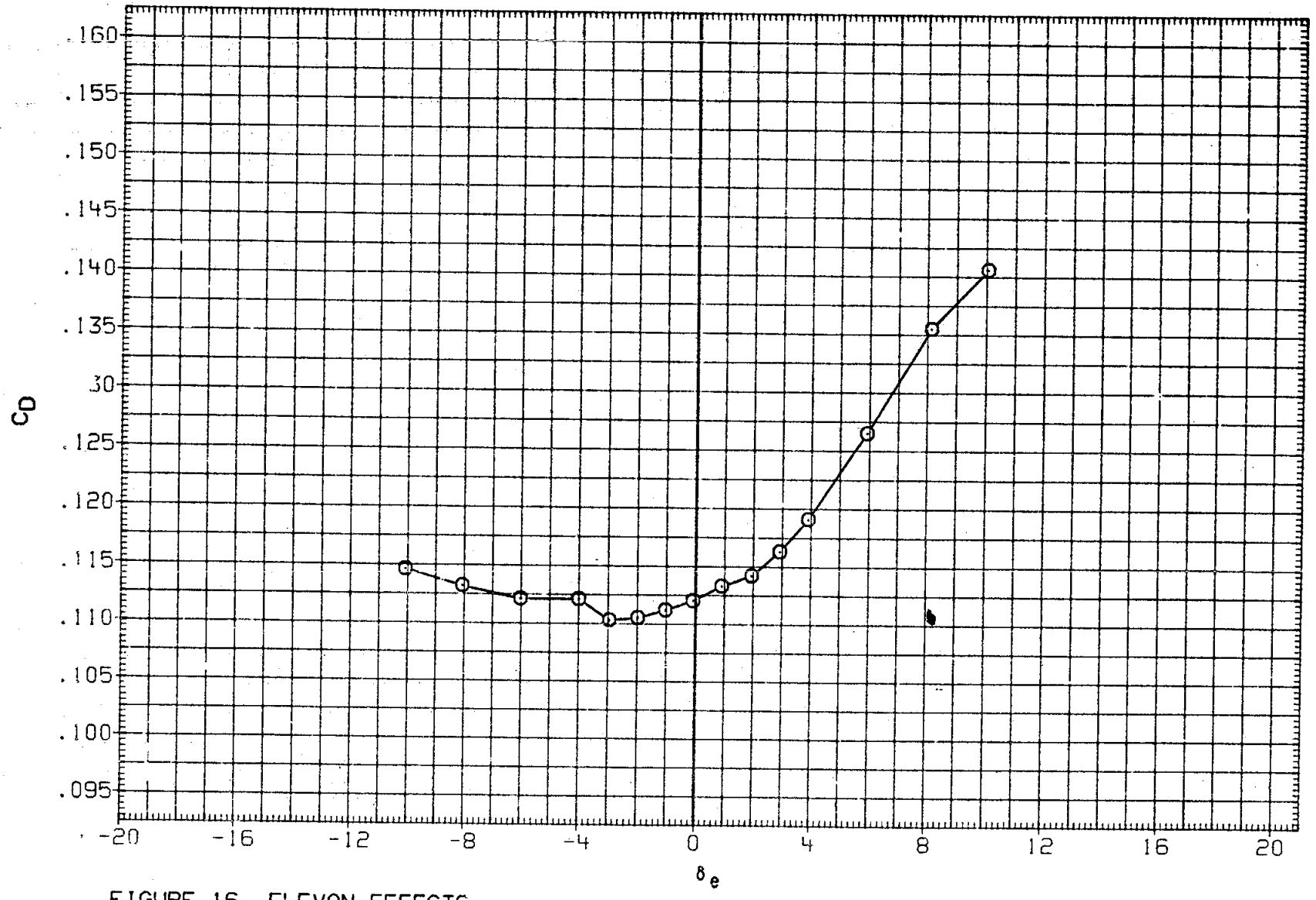

FIGURE 16. ELEVON EFFECTS

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
R2F034	○	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RKN033	□	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	.000

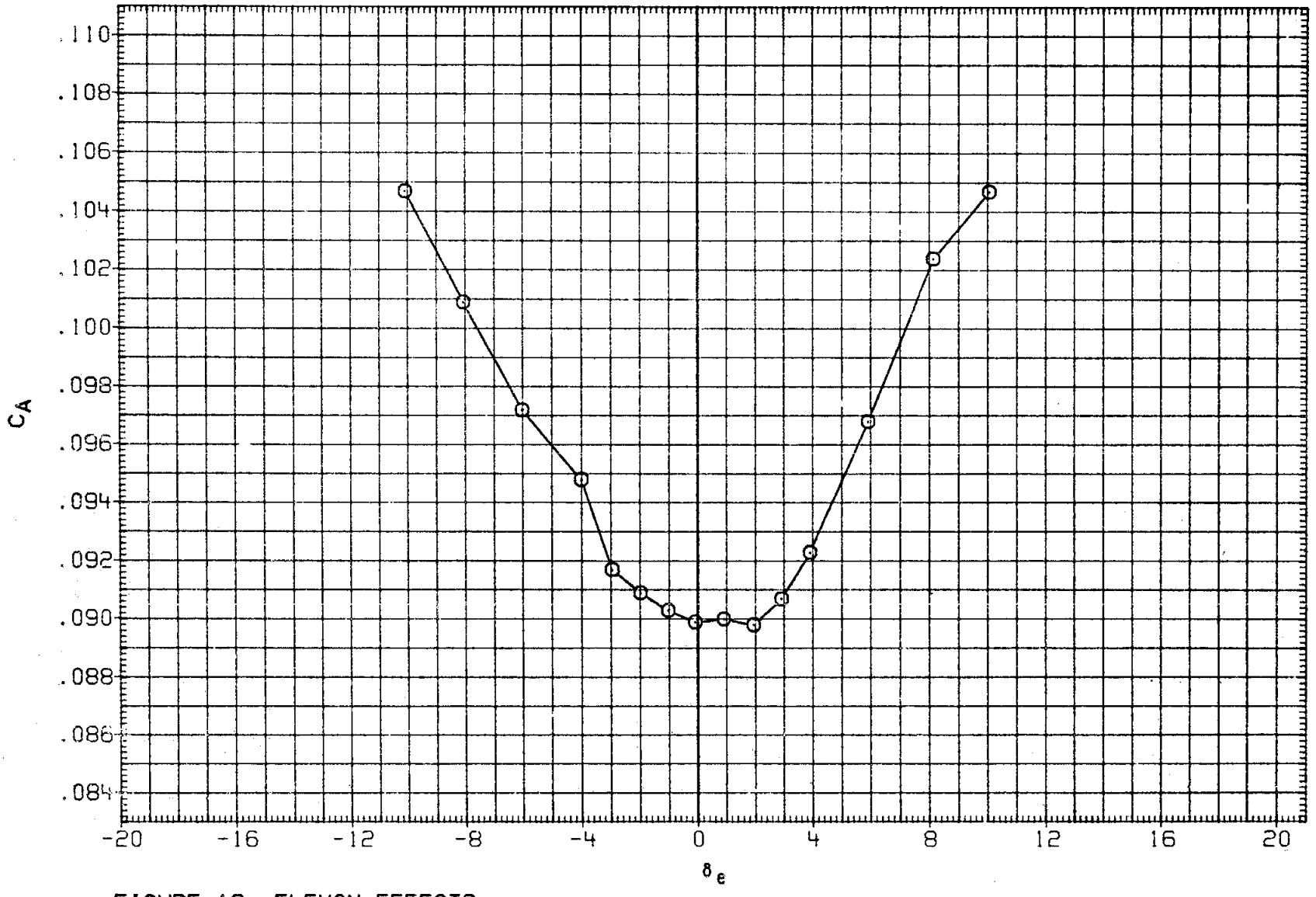

FIGURE 16. ELEVON EFFECTS

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
R2F034	○	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RKN033	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000

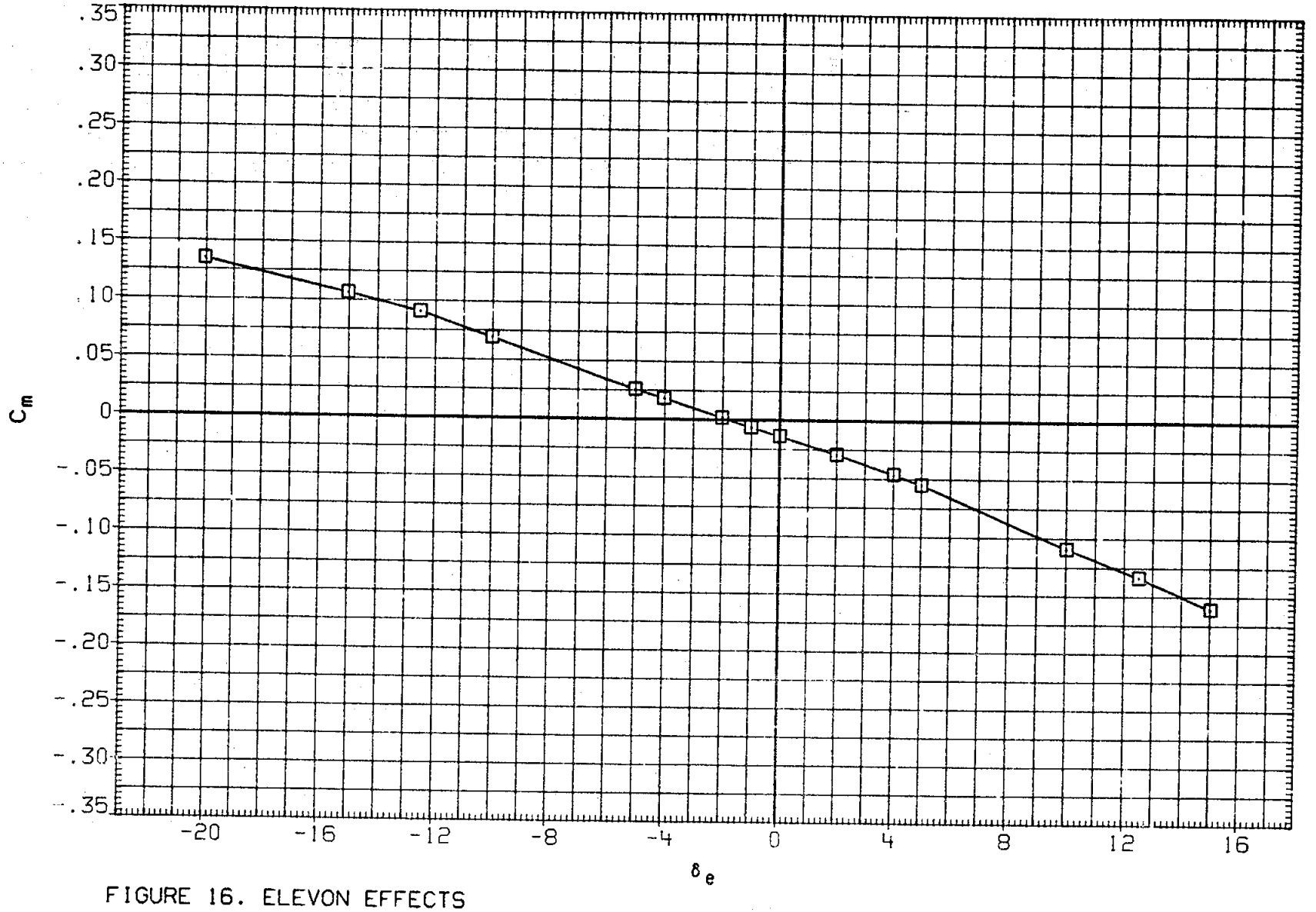

FIGURE 16. ELEVON EFFECTS

(E)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
R2F034	○	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RKN033	□	LARC 16FT TWT 3261OA270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000

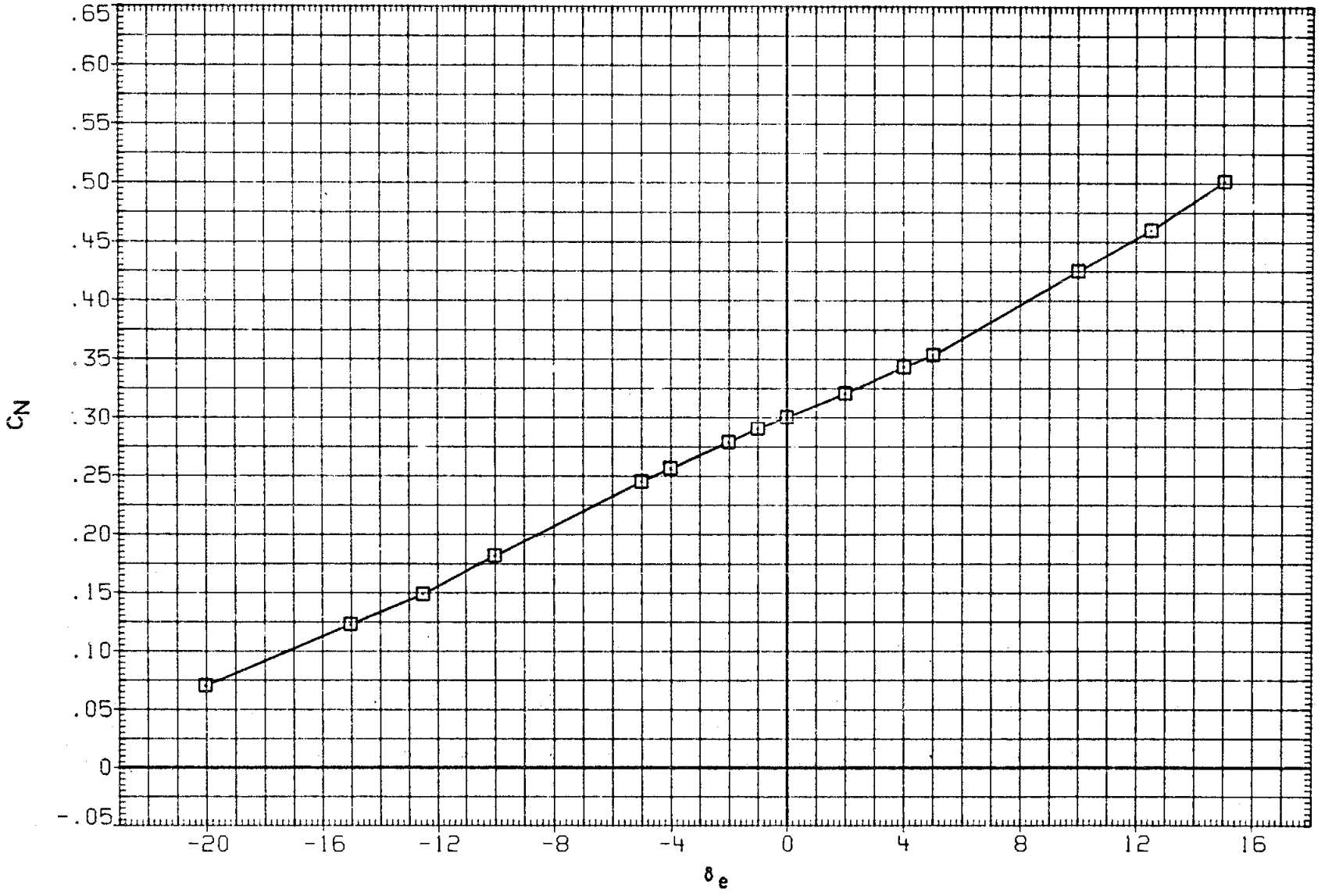

FIGURE 16. ELEVON EFFECTS

(E)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
R2F034	○	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RKN033	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000

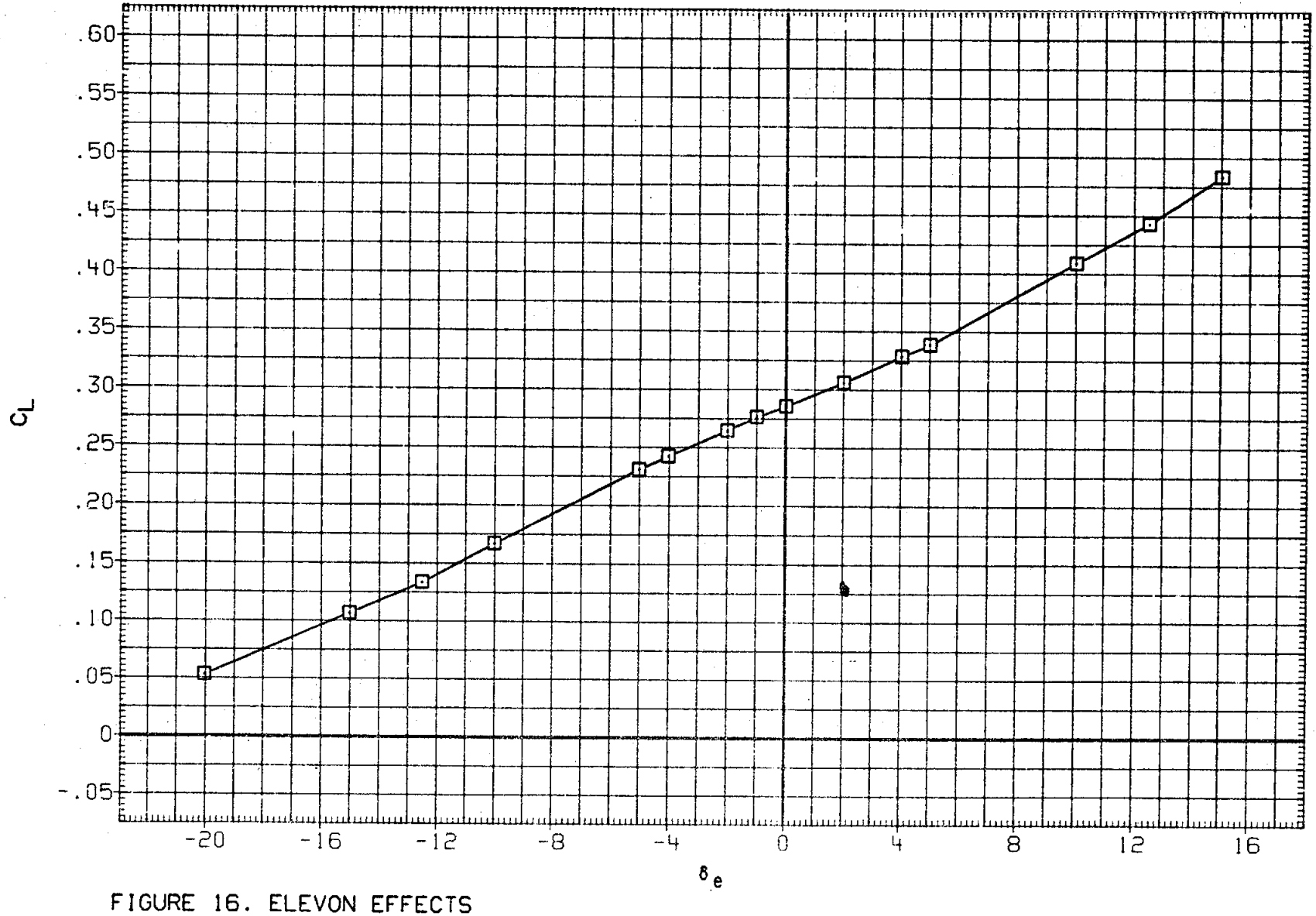

FIGURE 16. ELEVON EFFECTS

(E)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
R2F034	○	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RKN033	□	LARC 16FT TWT 326(0A270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000

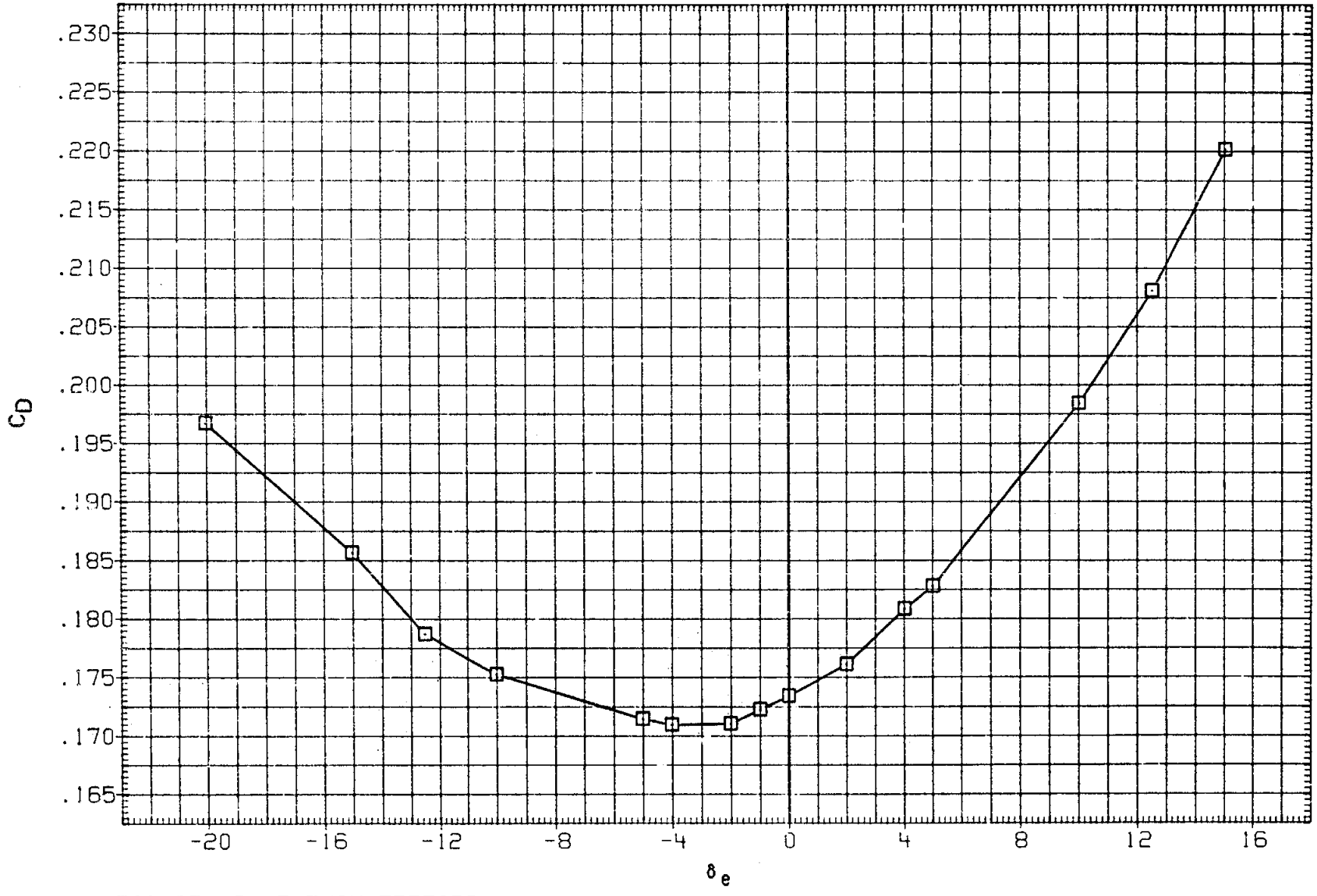

FIGURE 16. ELEVON EFFECTS

(E)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	GDFLAP	SPDBRK	RUDDER	PHI
R2F034	○	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RKN033	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000

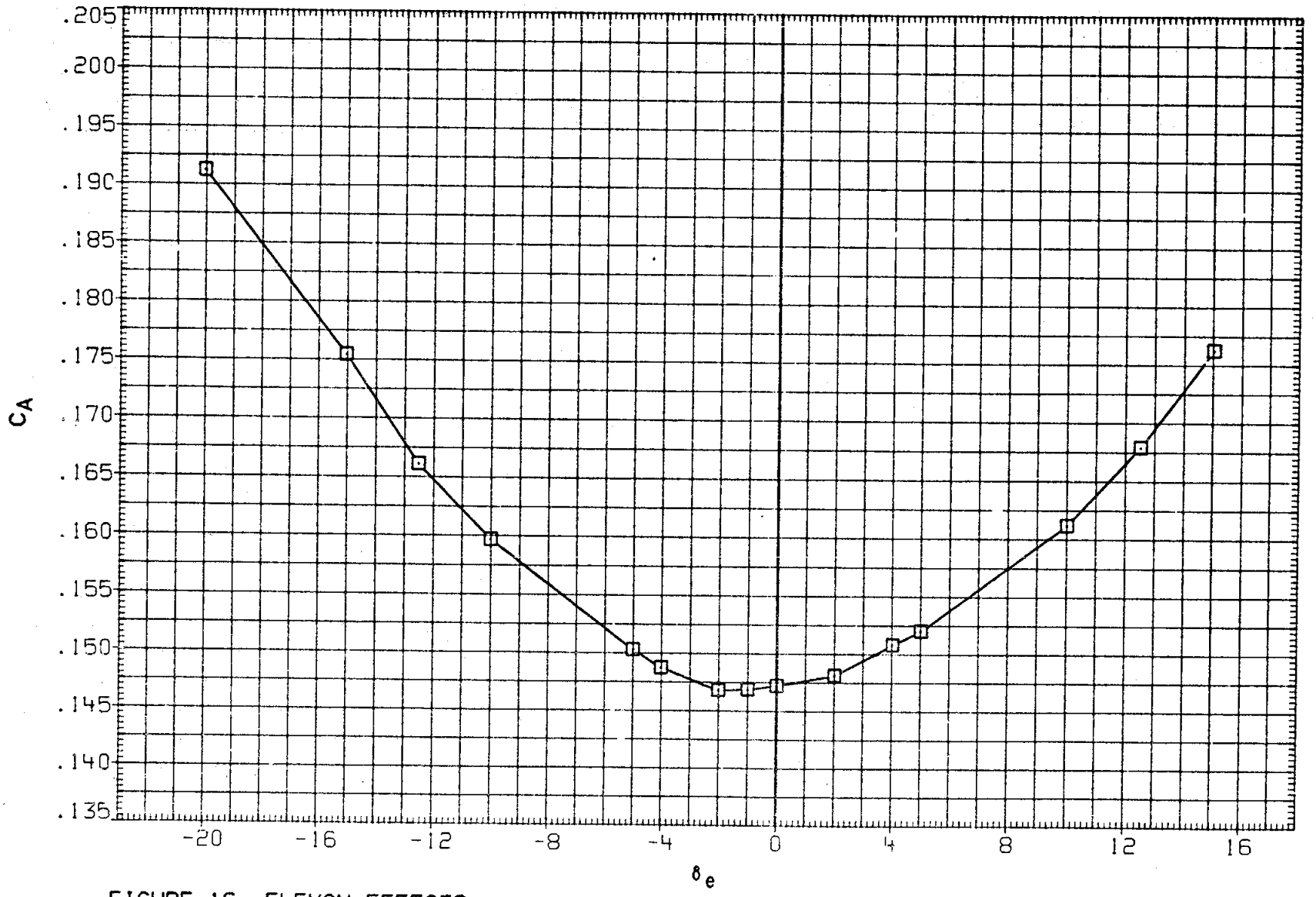

FIGURE 16. ELEVON EFFECTS

(E)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
R2F034	○	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RKN033	□	LARC 16FT TWT 3261OA270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000

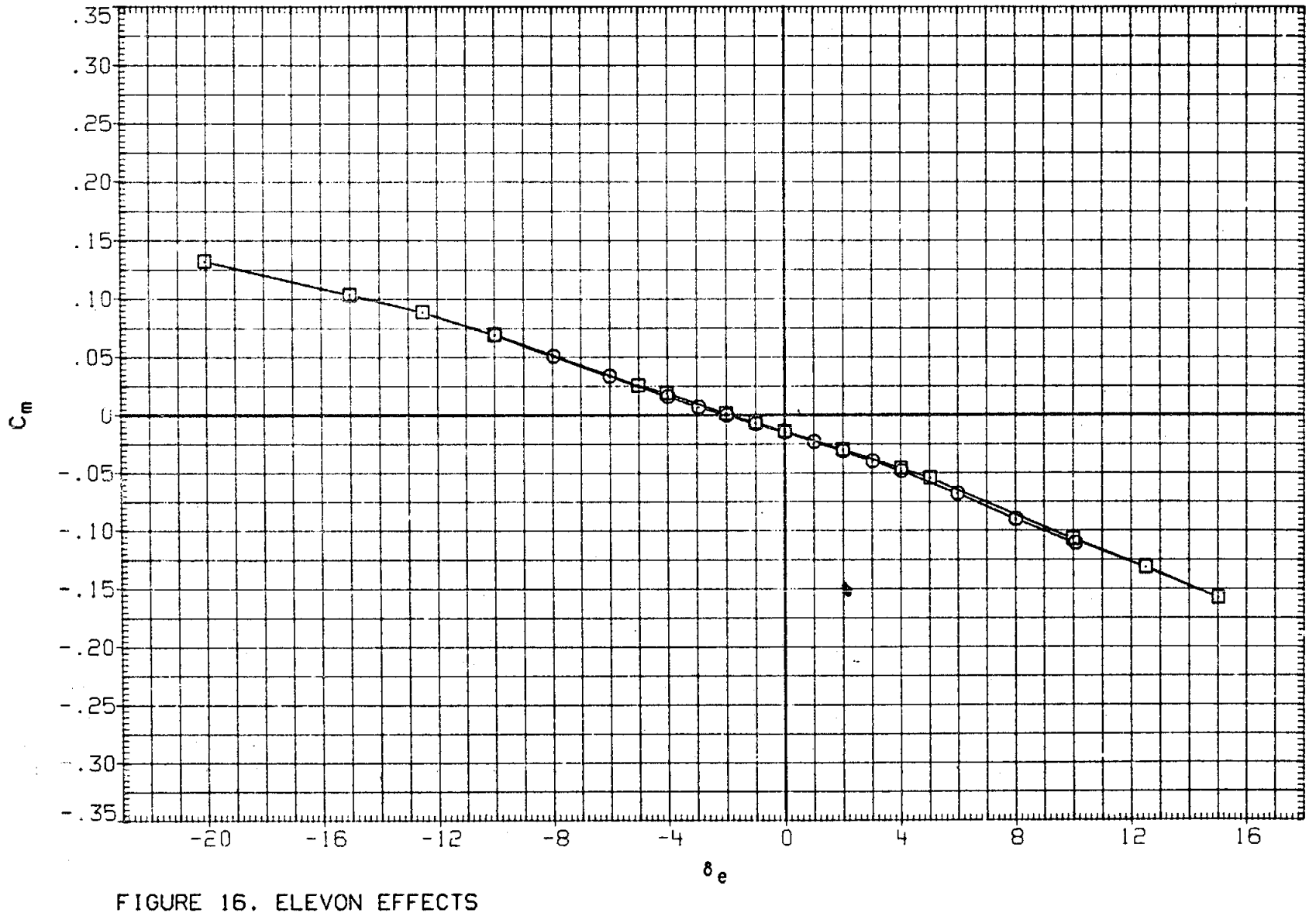

FIGURE 16. ELEVON EFFECTS

(F)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
R2F034	○	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RKN033	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000

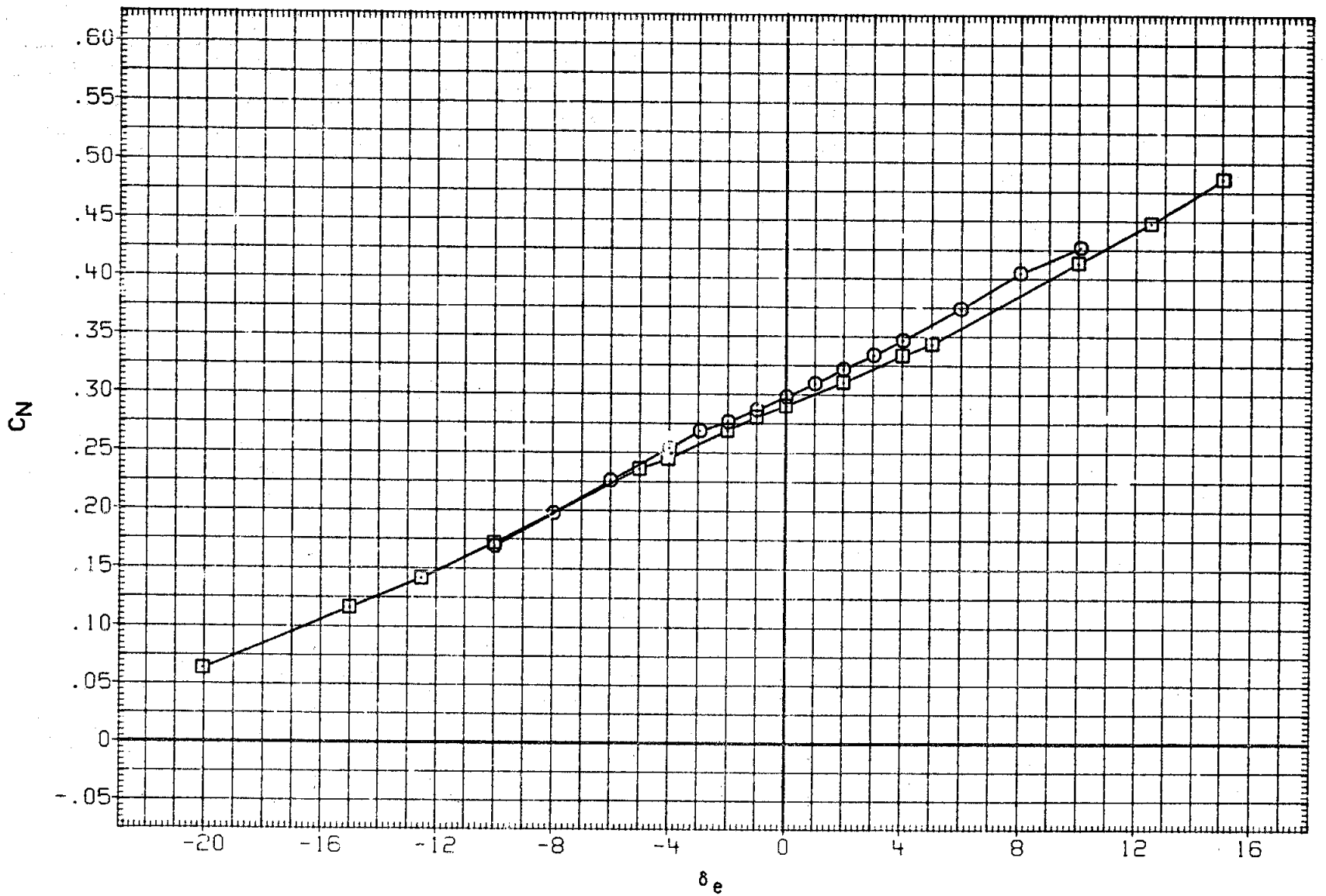

FIGURE 16. ELEVON EFFECTS

(F)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
R2F034	○	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RKN033	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000

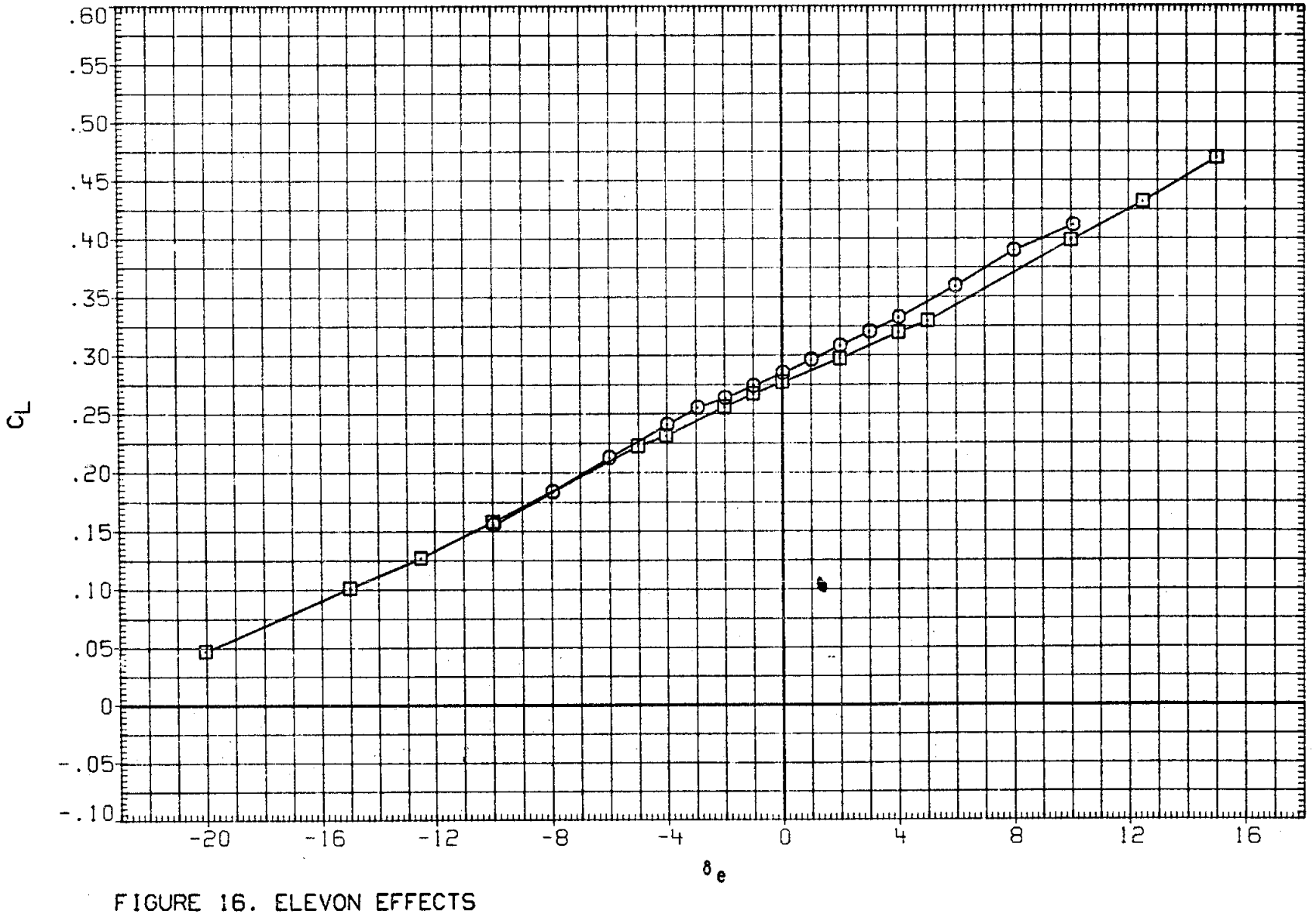

FIGURE 16. ELEVON EFFECTS

(F)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
R2F034	○	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RKN033	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000

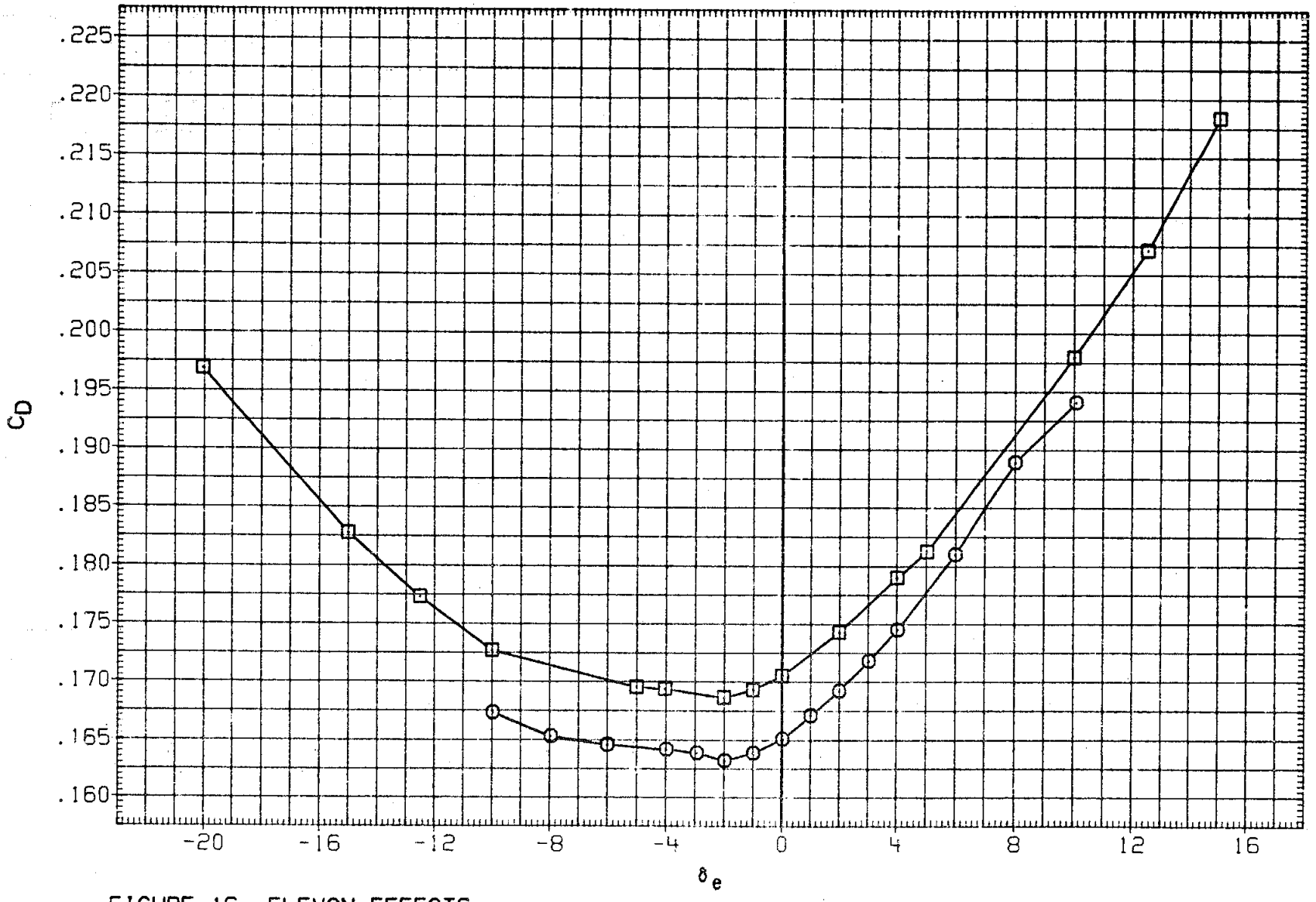

FIGURE 16. ELEVON EFFECTS

(F)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
R2F034	○	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RKN033	□	LARC 16FT TWT 326(OA279A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000

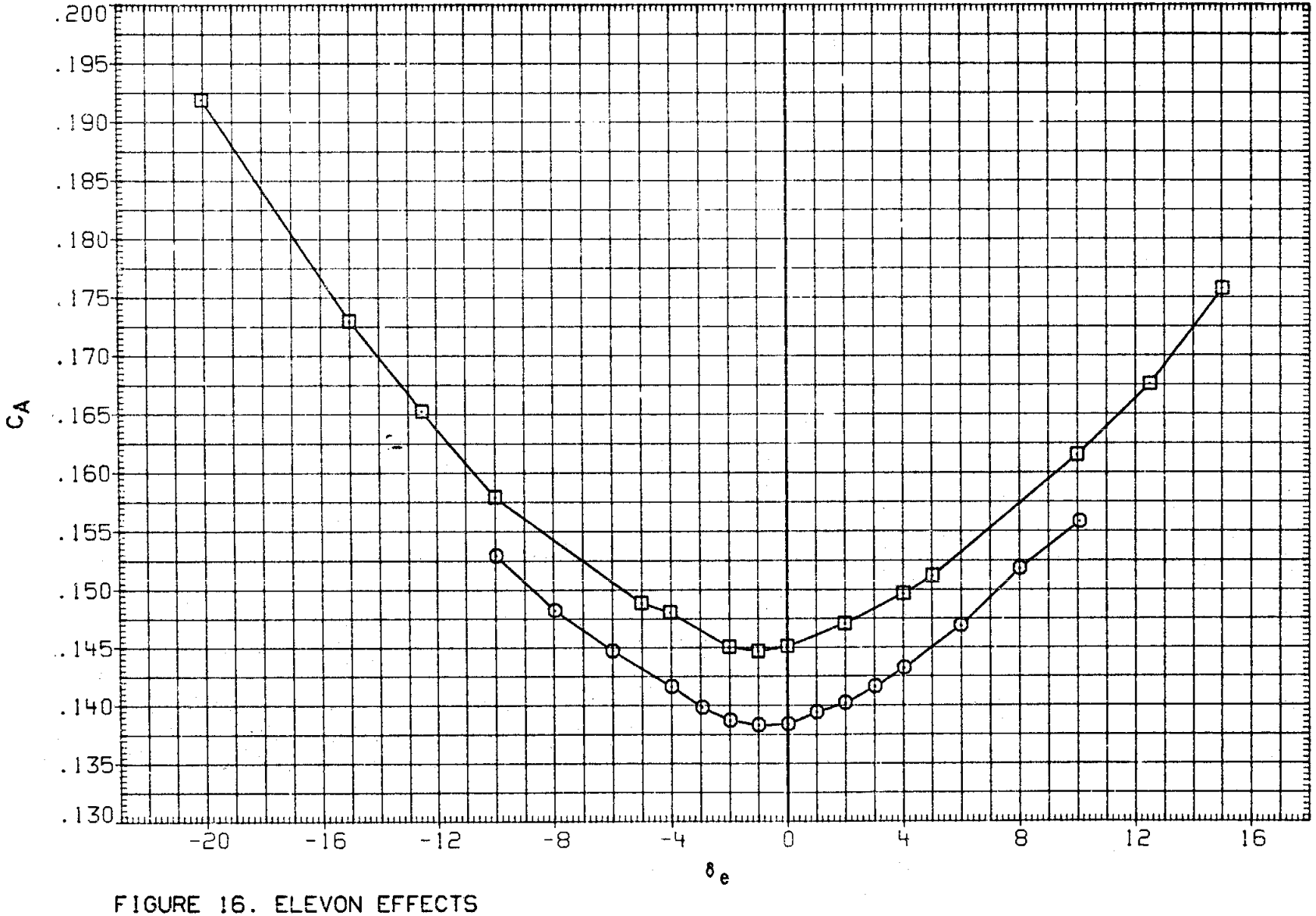

FIGURE 16. ELEVON EFFECTS

(F)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
R2F034	○	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RKN033	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000

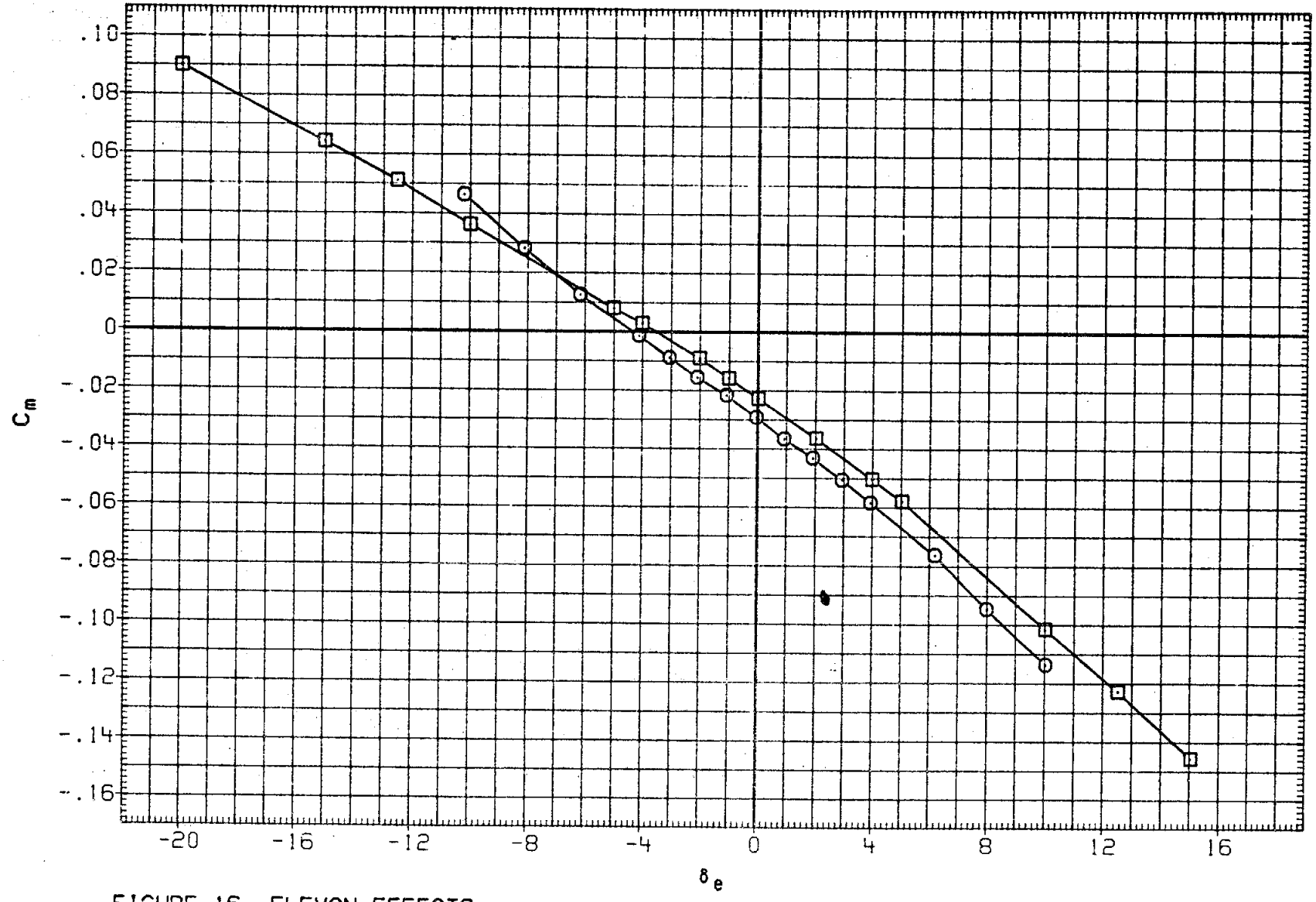

FIGURE 16. ELEVON EFFECTS

(G)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
R2F034	○	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RKN033	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000

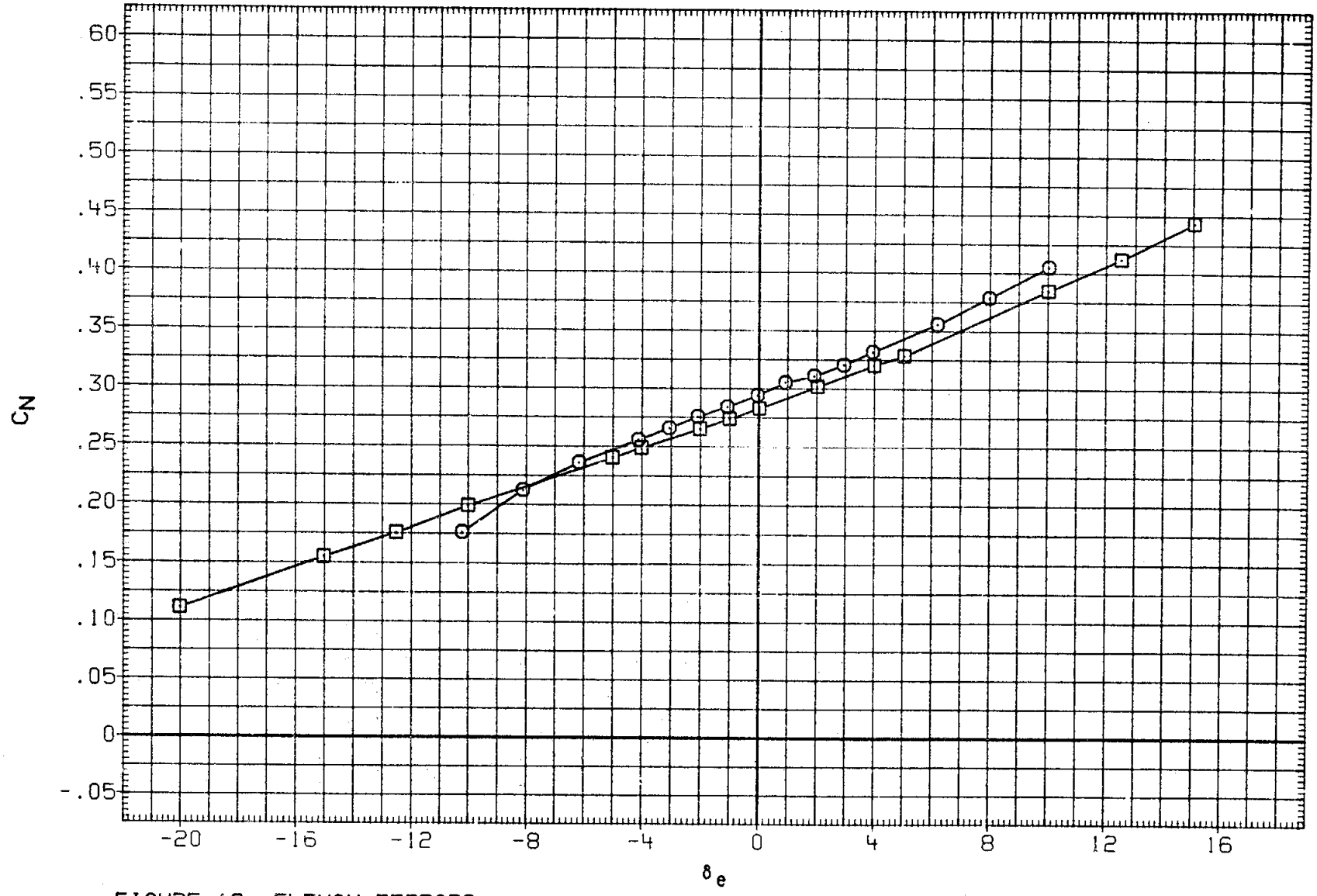

FIGURE 16. ELEVON EFFECTS

(G)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION
R2F034	○	AMES 118-1-11 OA145A 01
RKN033	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.

ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
5.000	.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	25.000	.000	.000

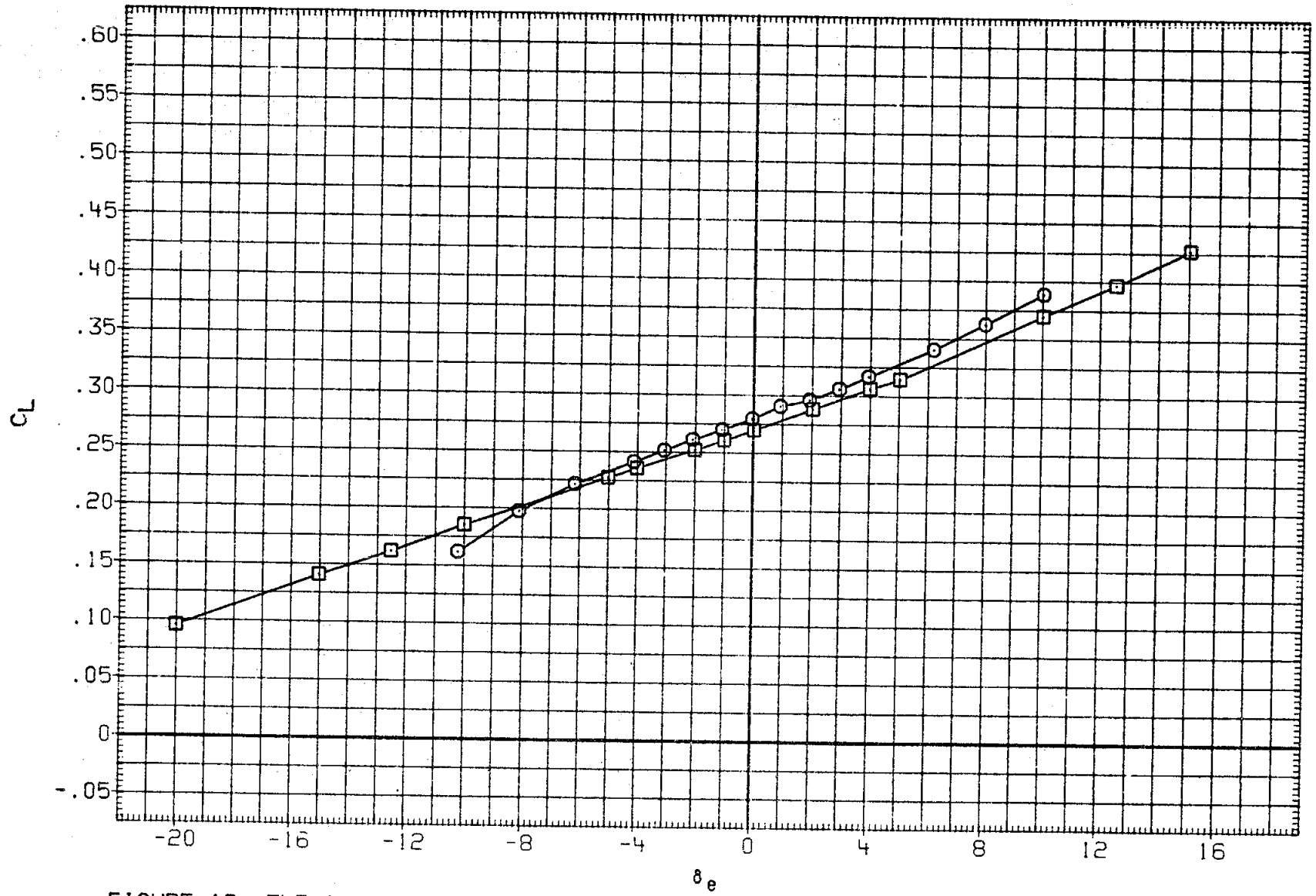

FIGURE 16. ELEVON EFFECTS

(G)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
R2F034	○	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RKN033	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000

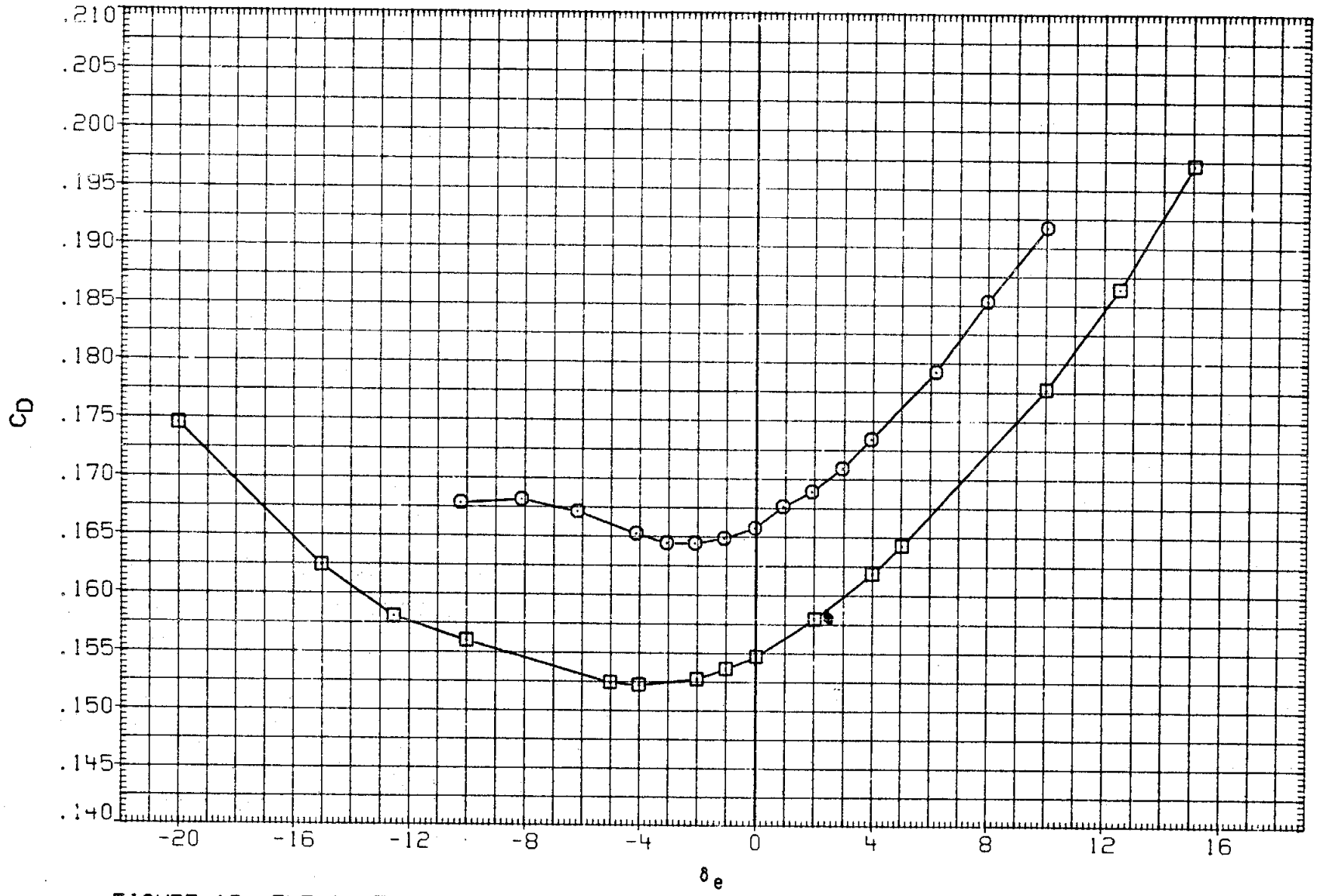

FIGURE 16. ELEVON EFFECTS

(G)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION
R2F034	○	AMES 118-1-11 OA145A 01
RKN033	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.

ALPHA	BETA	AILRON	BDFLAP	SPOBRK	RUDDER	PHI
5.000	.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	25.000	.000	.000

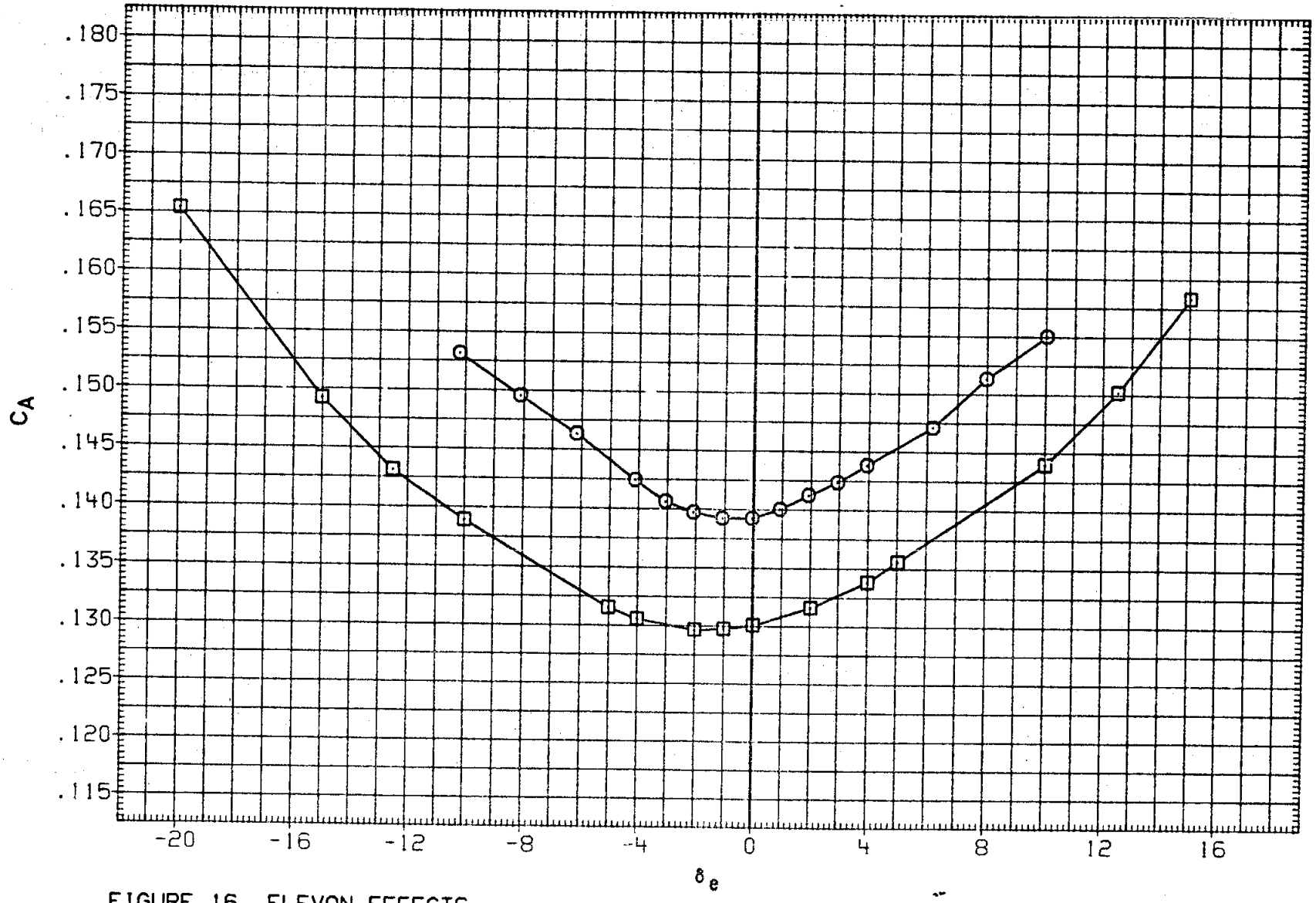

FIGURE 16. ELEVON EFFECTS

(G)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
R2F034	○	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RKN033	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000

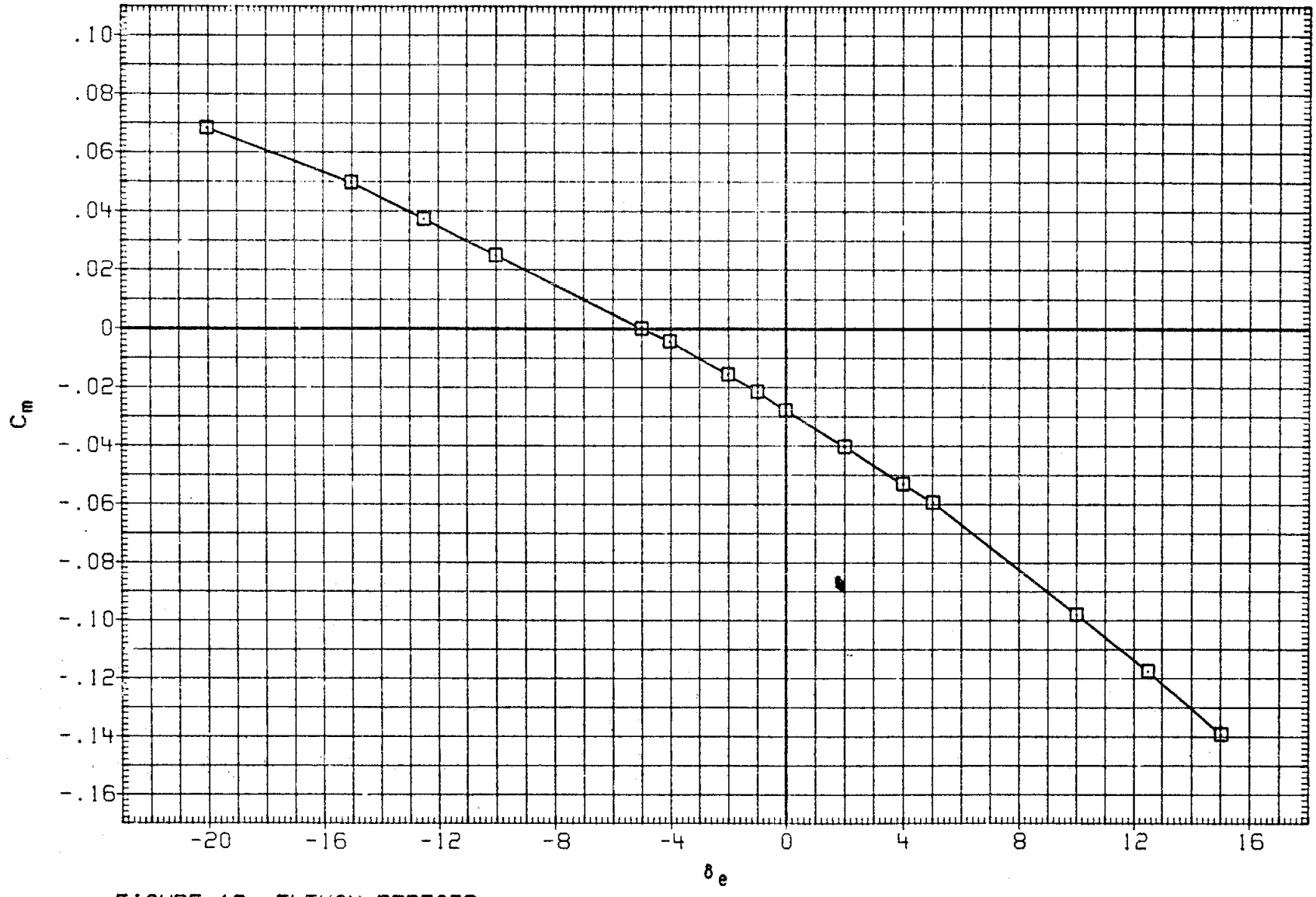

FIGURE 16. ELEVON EFFECTS

(H)MACH = 1.27

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
R2F034	○	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RKN033	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000

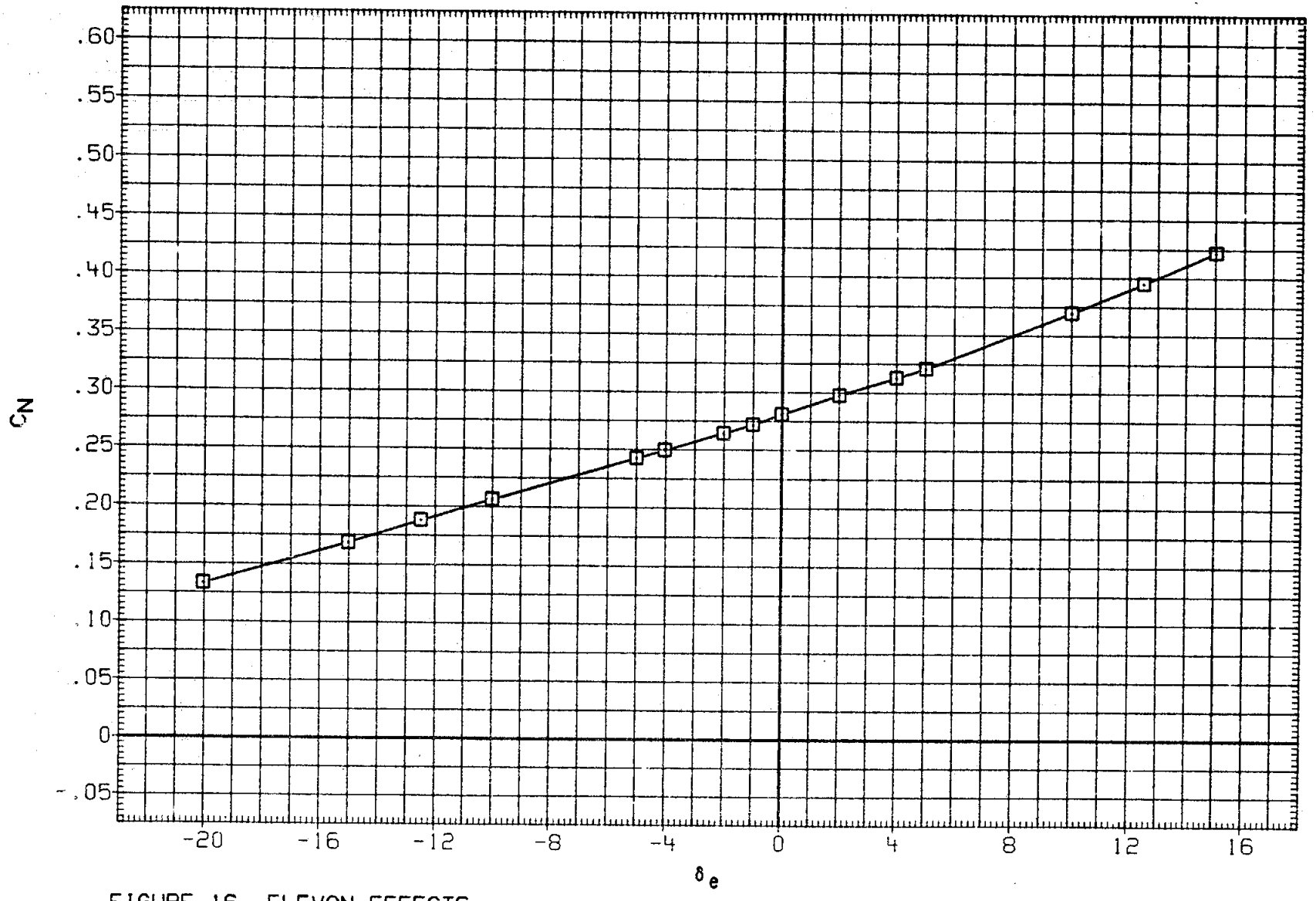

FIGURE 16. ELEVON EFFECTS

(H)MACH = 1.27

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
R2F034	○	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RKN033	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000

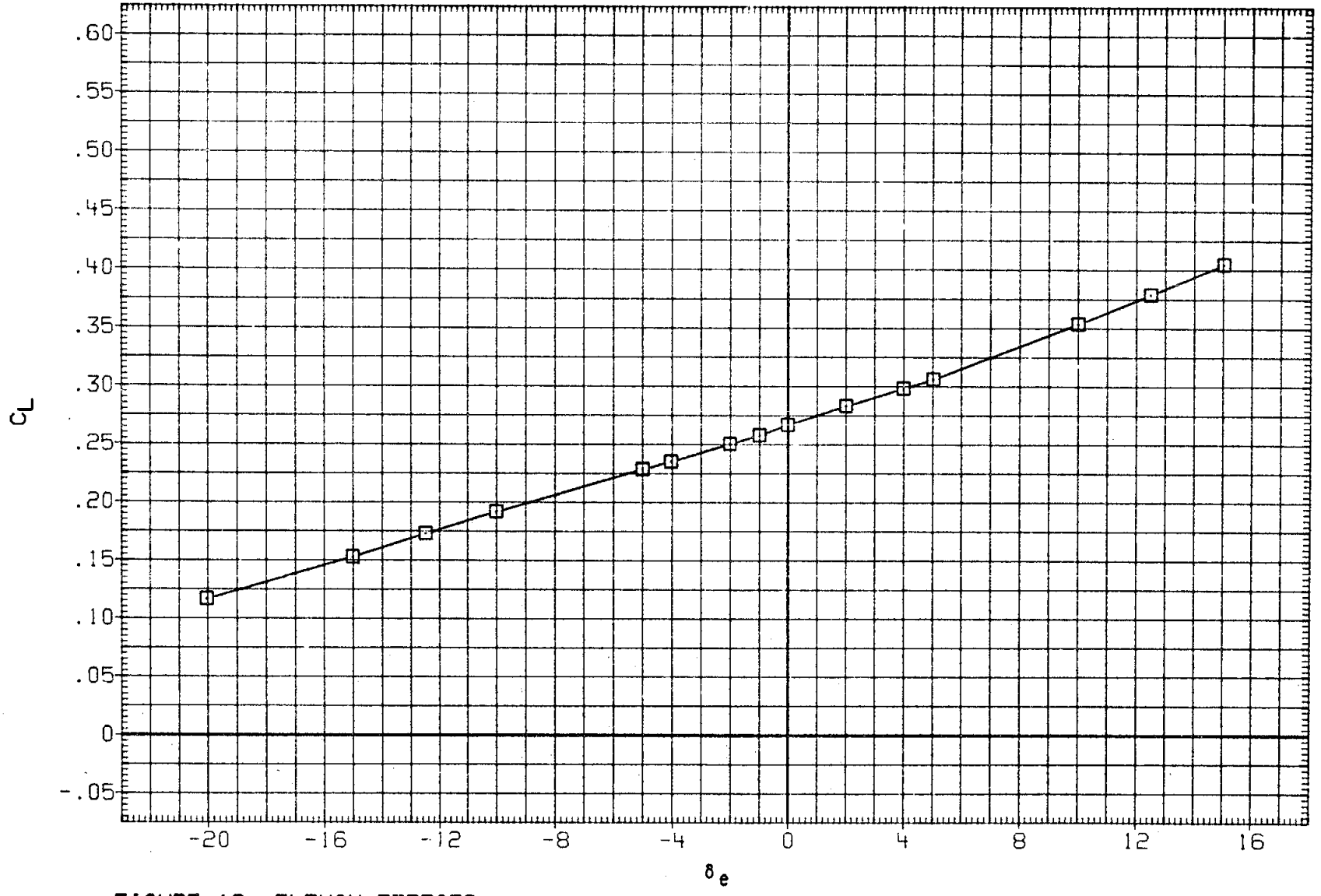

FIGURE 16. ELEVON EFFECTS

(H)MACH = 1.27

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
R2F034	○	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RKN033	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000

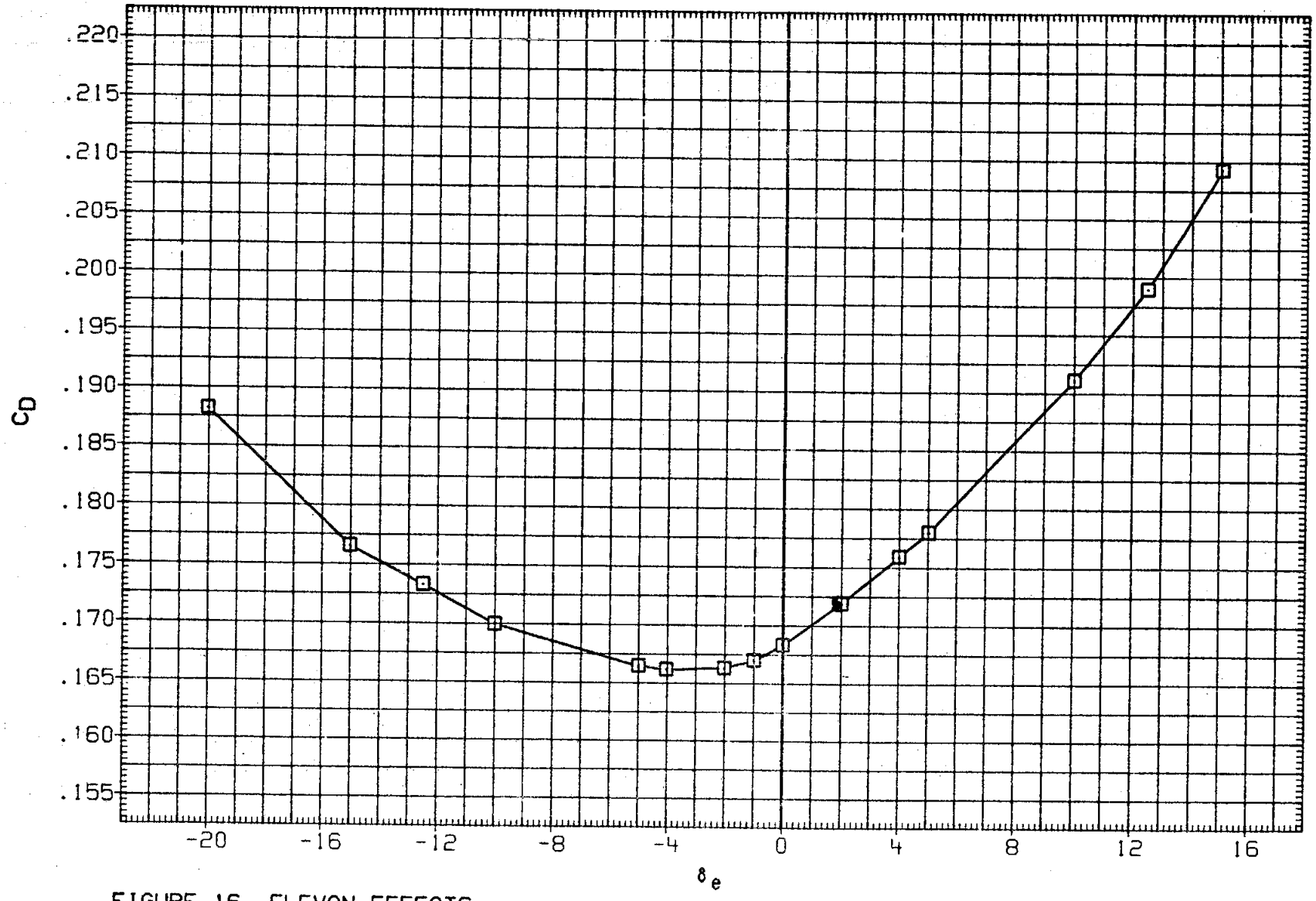

FIGURE 16. ELEVON EFFECTS

(H)MACH = 1.27

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
R2F034	○	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RKN033	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000

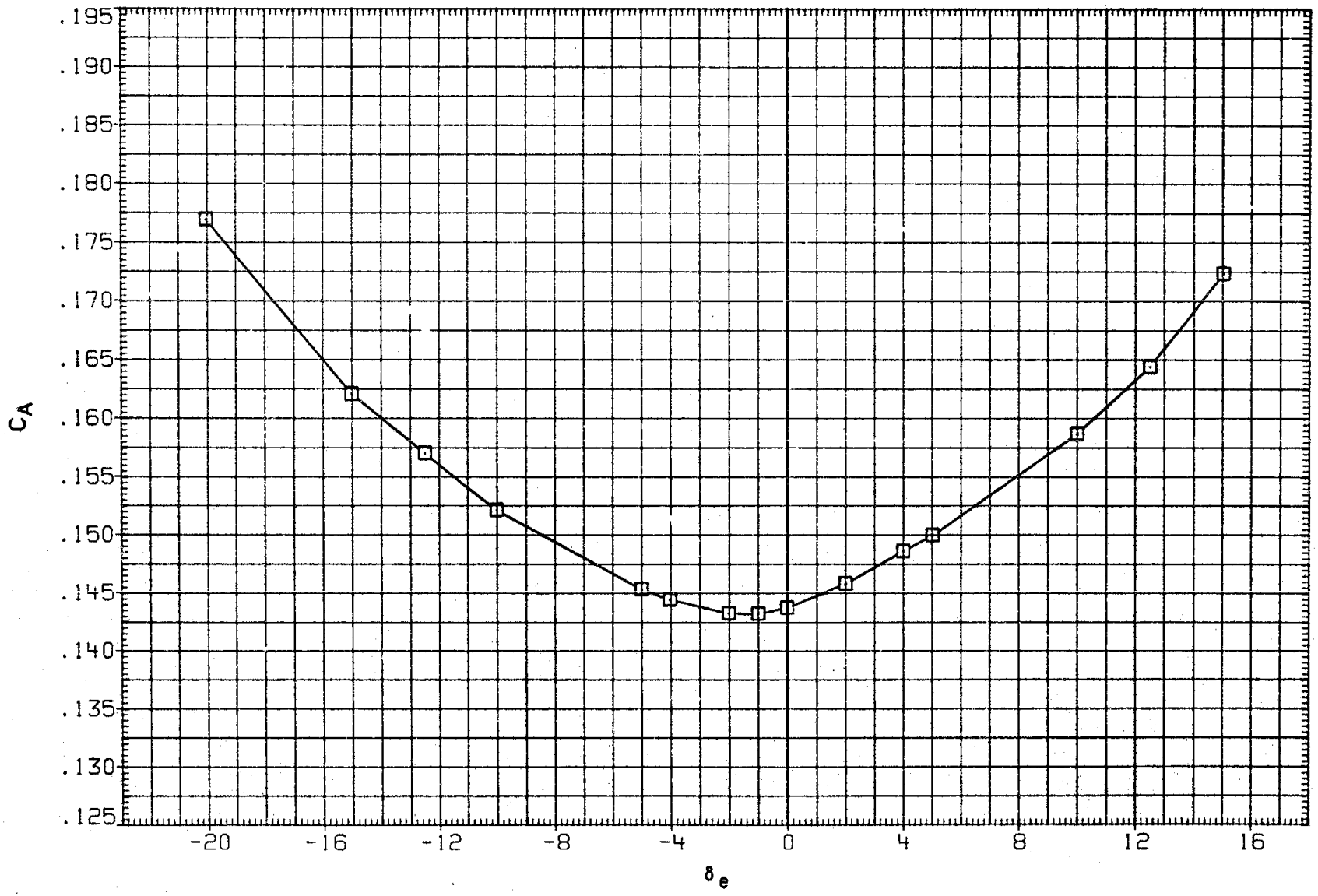

FIGURE 16. ELEVON EFFECTS

(H)MACH = 1.27

DATA SET	SYMBOL	CONFIGURATION
R2F034	○	AMES 118-1-11 OA145A 01
RKN033	□	DATA NOT AVAILABLE

ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
5.000	.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	25.000	.000	.000

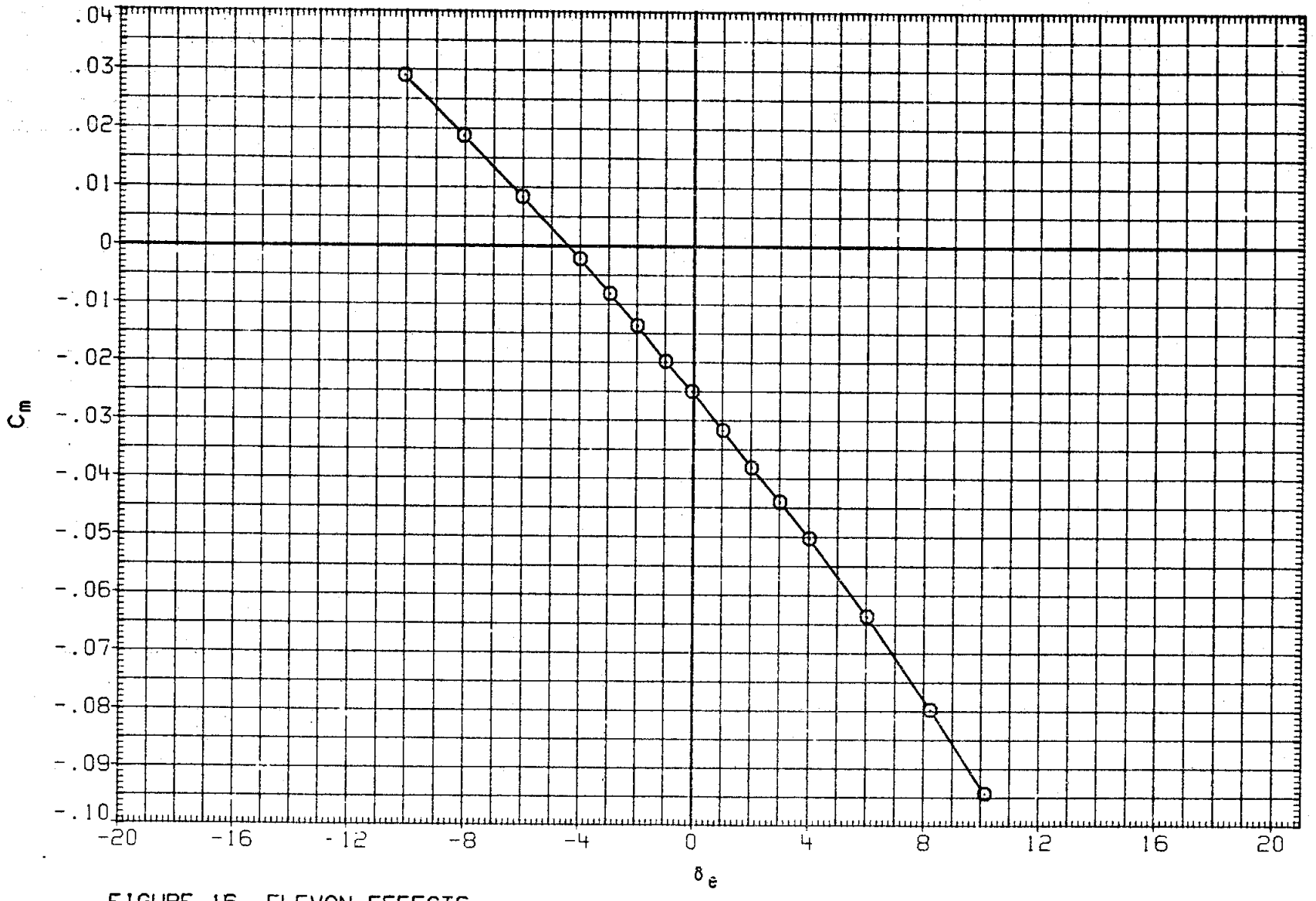

FIGURE 16. ELEVON EFFECTS

(I)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
R2F034	○	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RKN033	□	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	.000

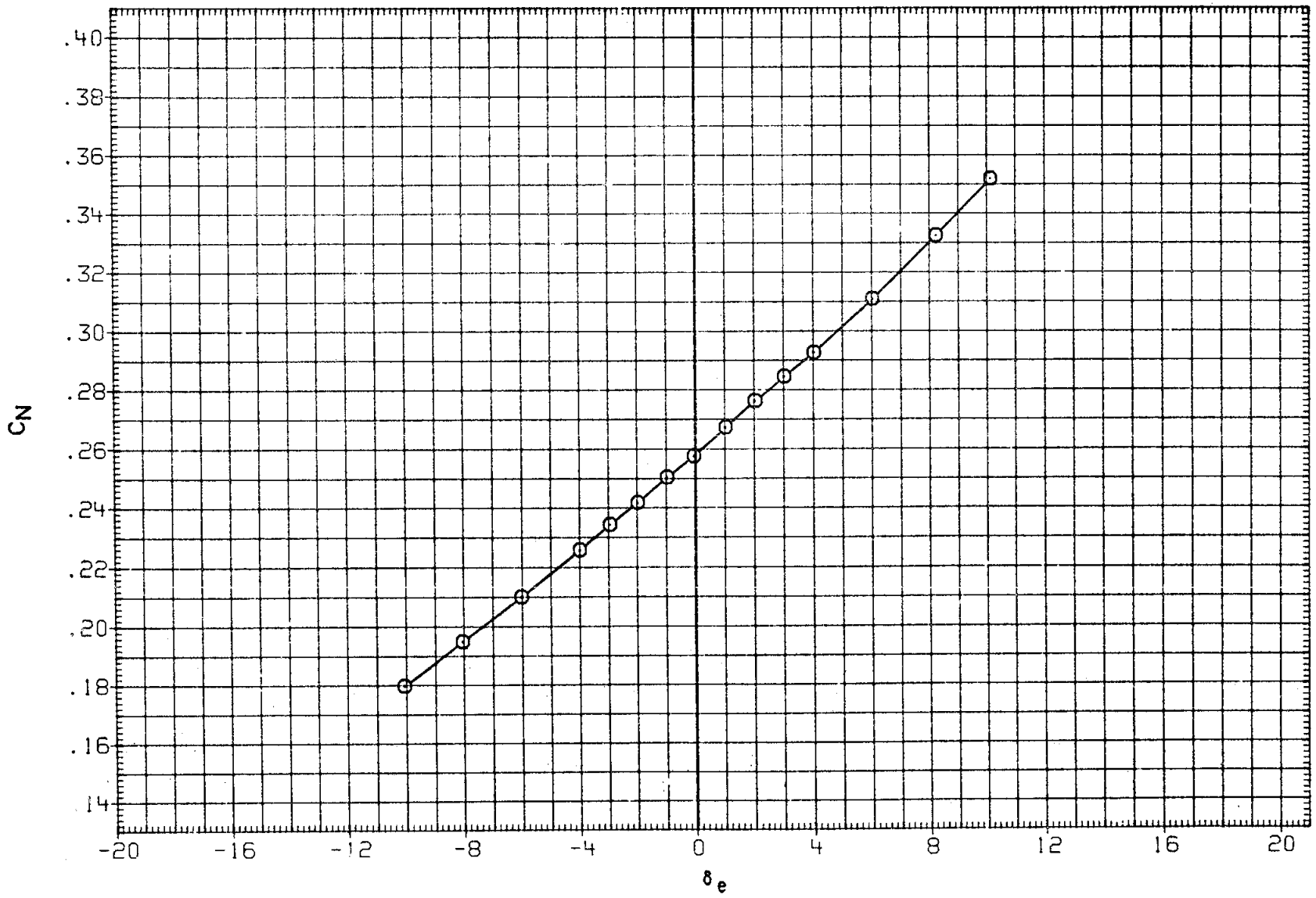

FIGURE 16. ELEVON EFFECTS

(I)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
R2F034	○	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RKN033	□	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	.000

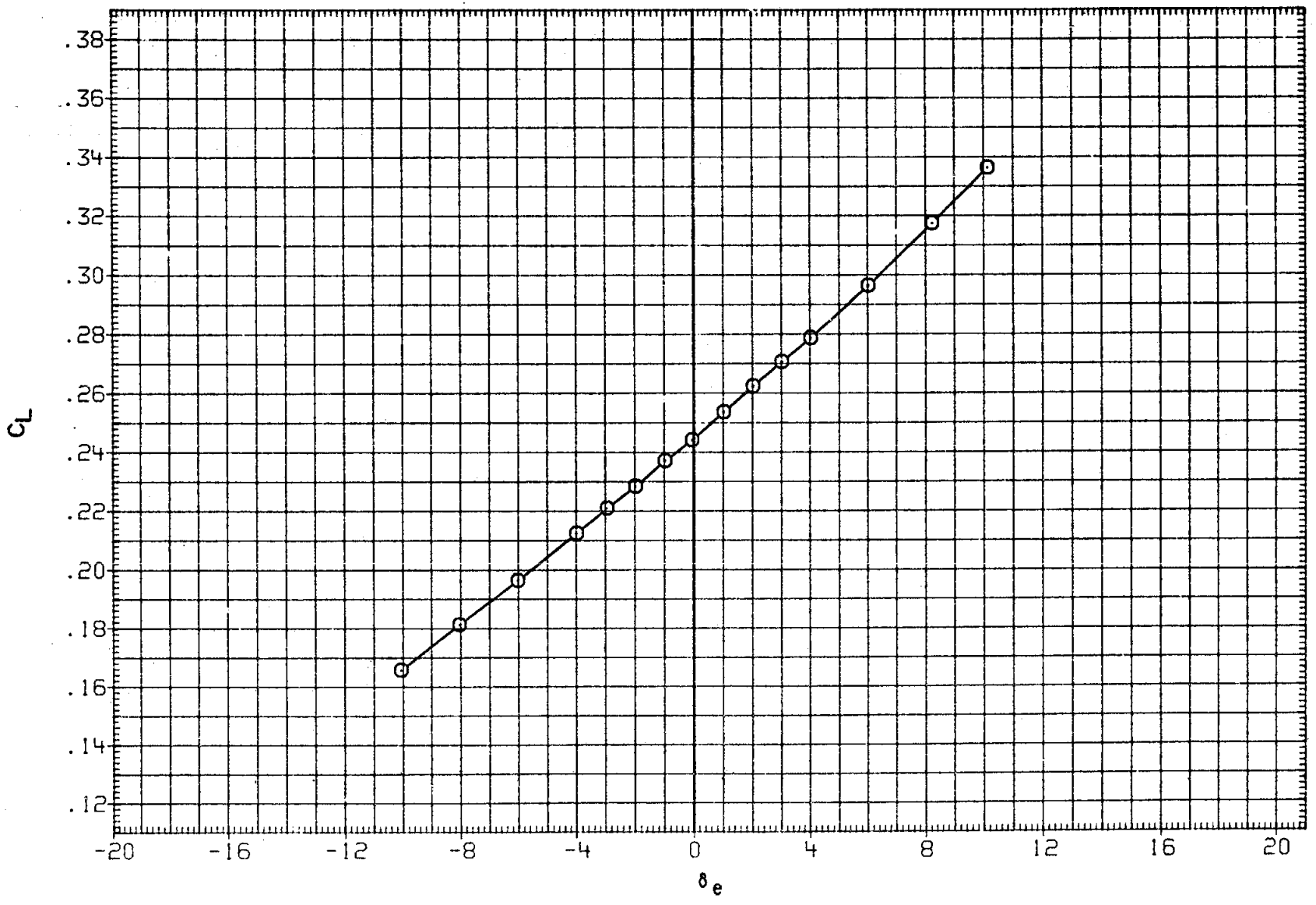

FIGURE 16. ELEVON EFFECTS

(I)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
R2F034	○	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RKN033	□	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	.000

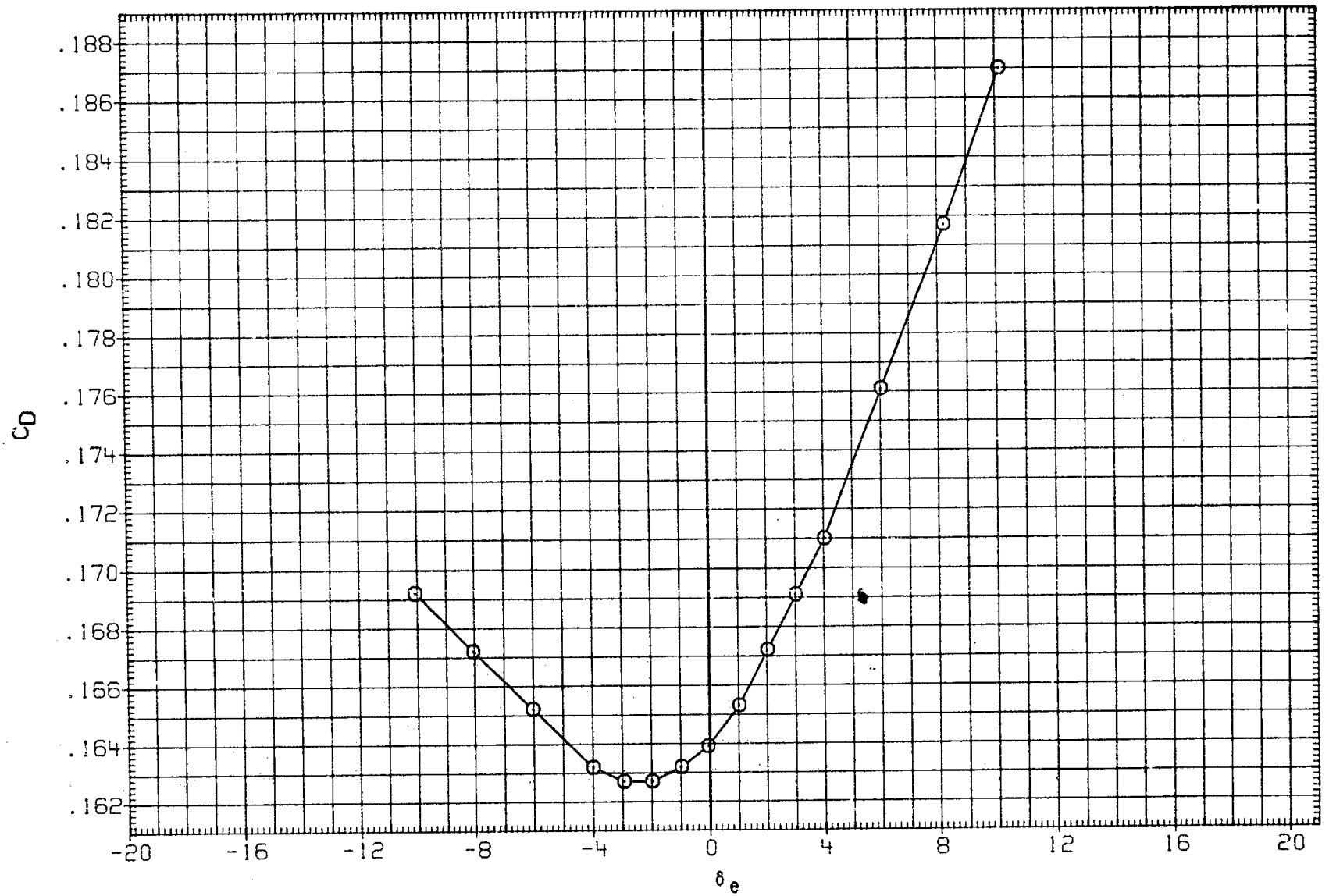

FIGURE 16. ELEVON EFFECTS

(I)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION
R2F034	○	AMES 118-1-11 OA145A 01
RKN033	□	DATA NOT AVAILABLE

ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
5.000	.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	25.000	.000	.000

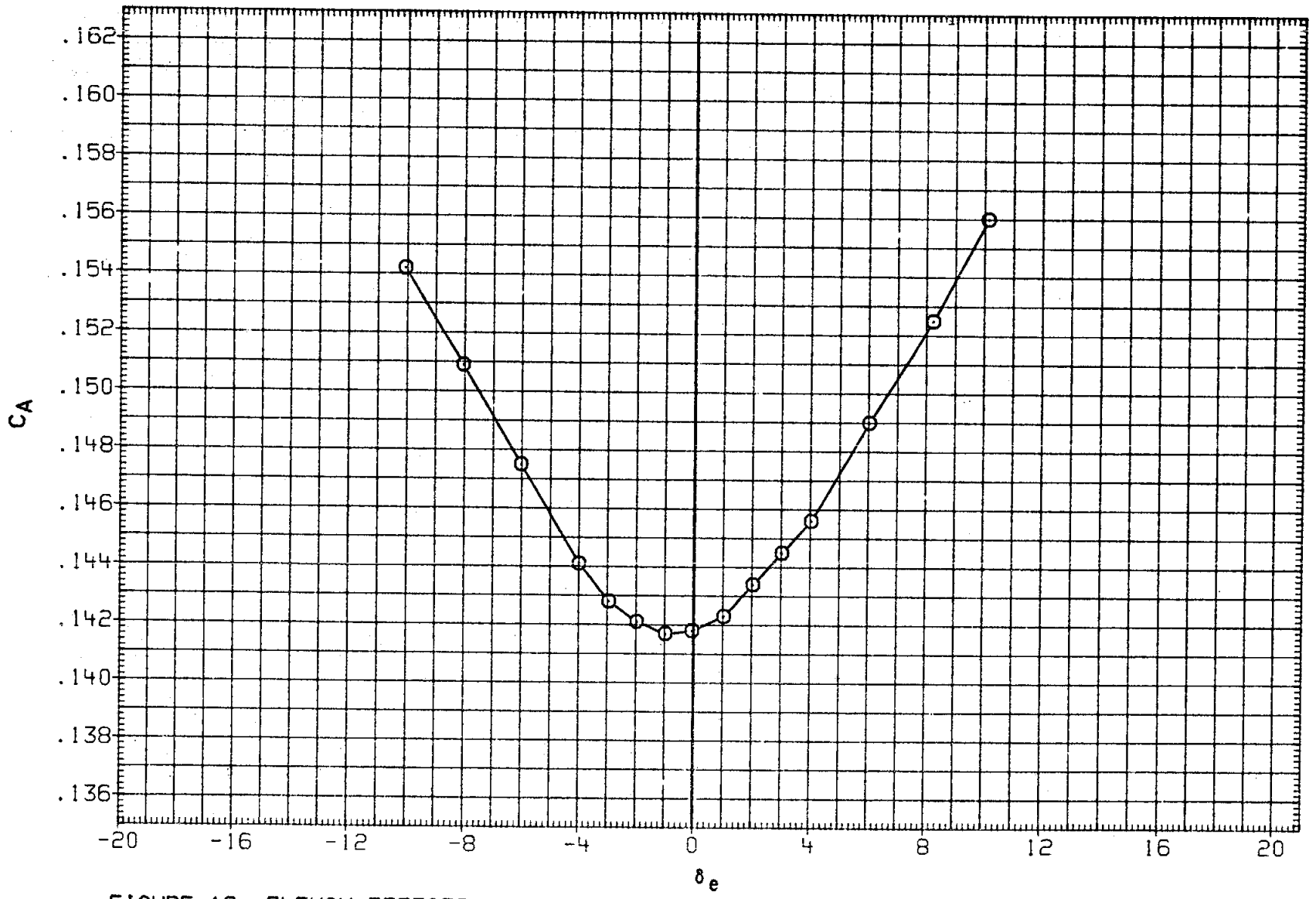

FIGURE 16. ELEVON EFFECTS

(1)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
R2F034	○	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RKN033	□	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	.000

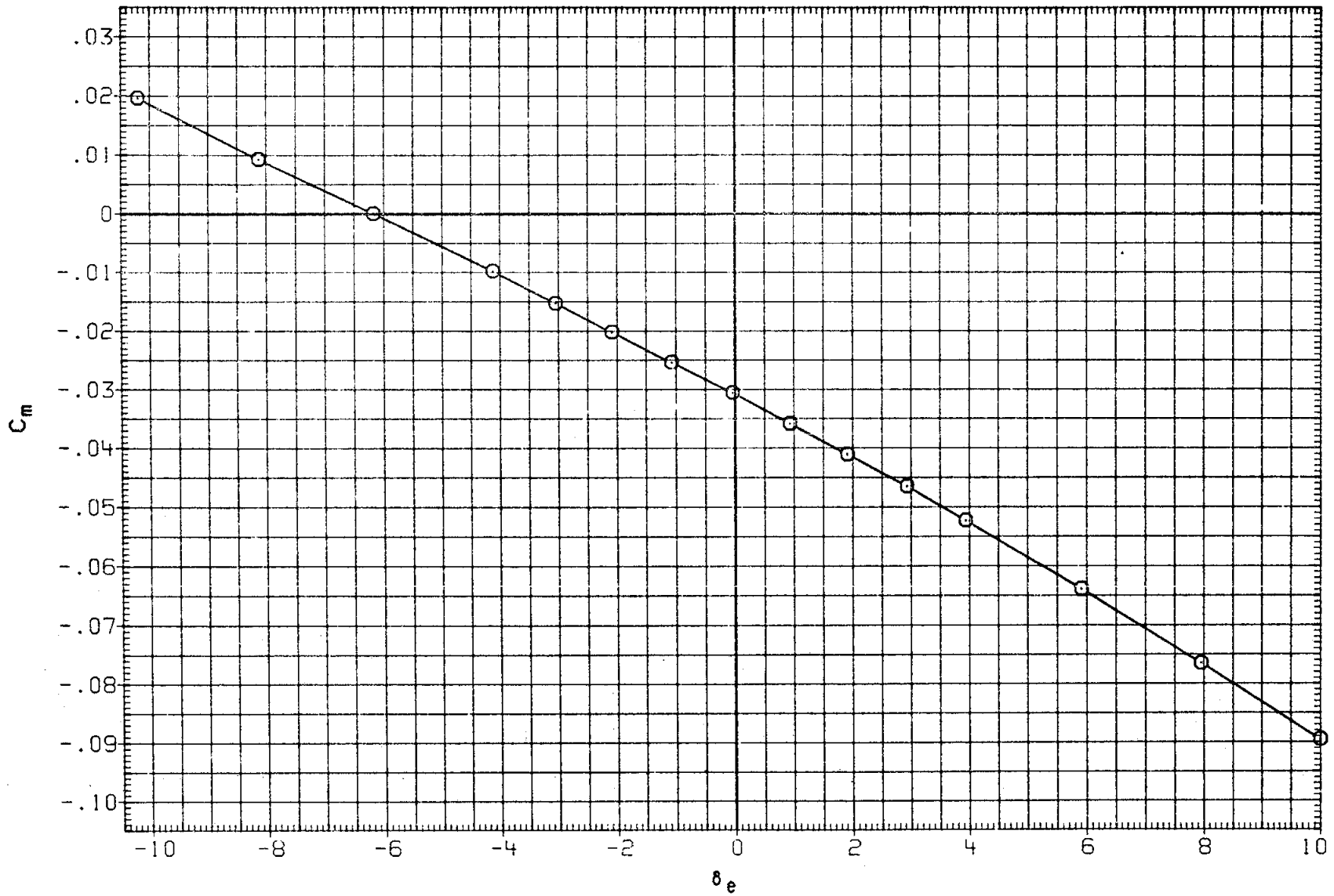

FIGURE 16. ELEVON EFFECTS

(J)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
R2F034	○	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RKN033	□	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	.000

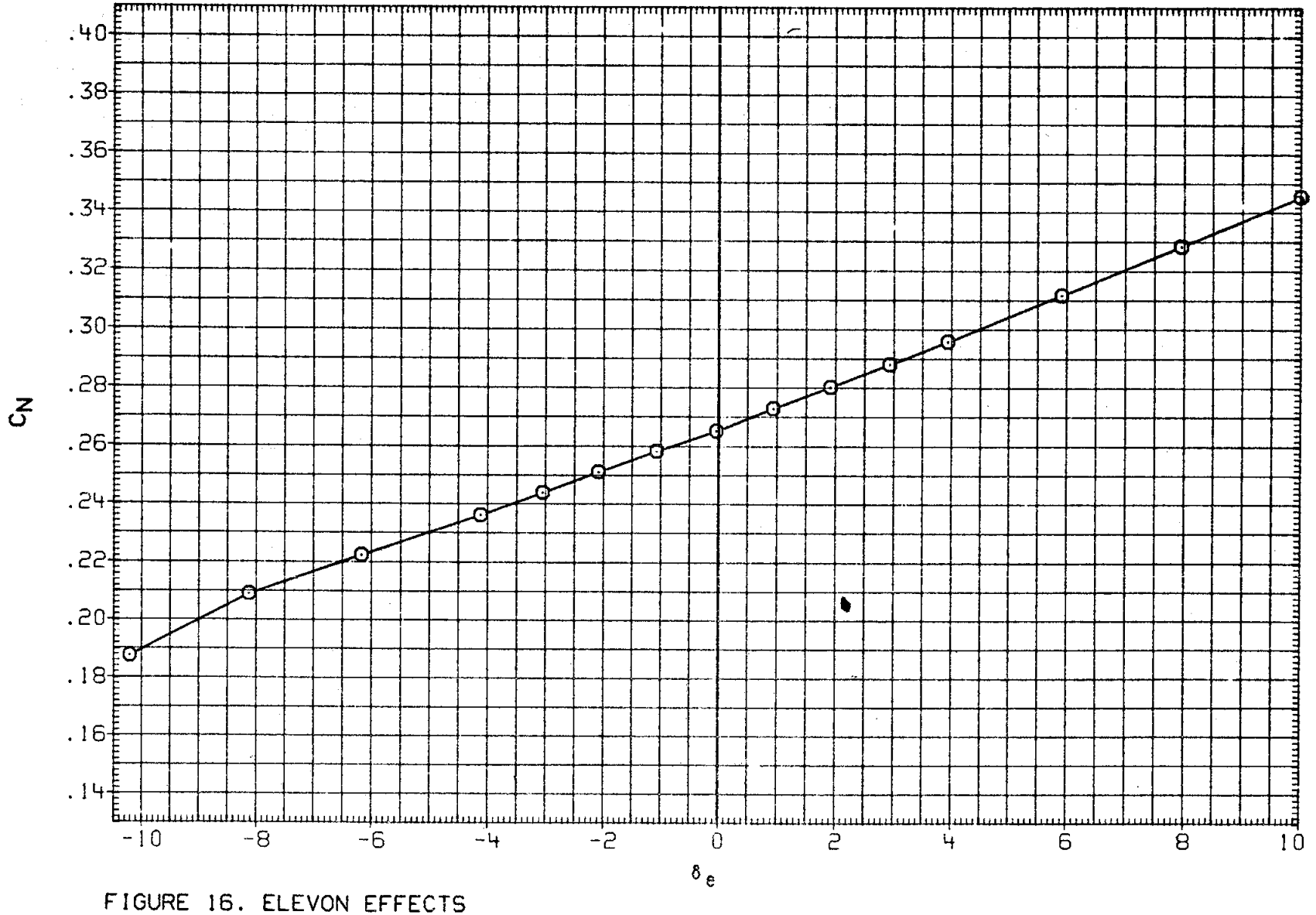

FIGURE 16. ELEVON EFFECTS

(J)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION
R2F034	○	AMES 118-1-11 OA145A 01
RKN033	□	DATA NOT AVAILABLE

ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
5.000	.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	25.000	.000	.000

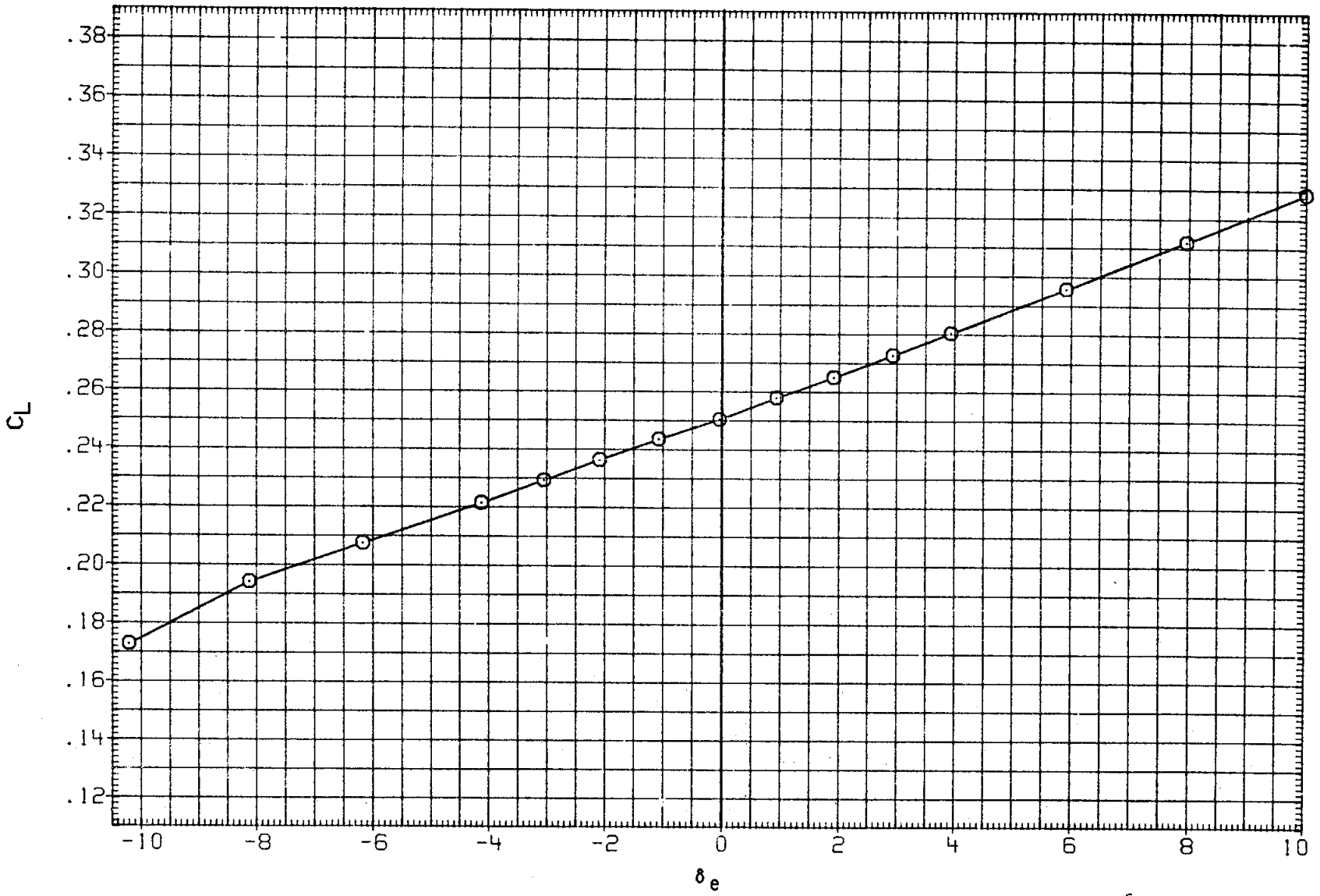

FIGURE 16. ELEVON EFFECTS

(J) MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
R2F034	○	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RKN033	□	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	.000

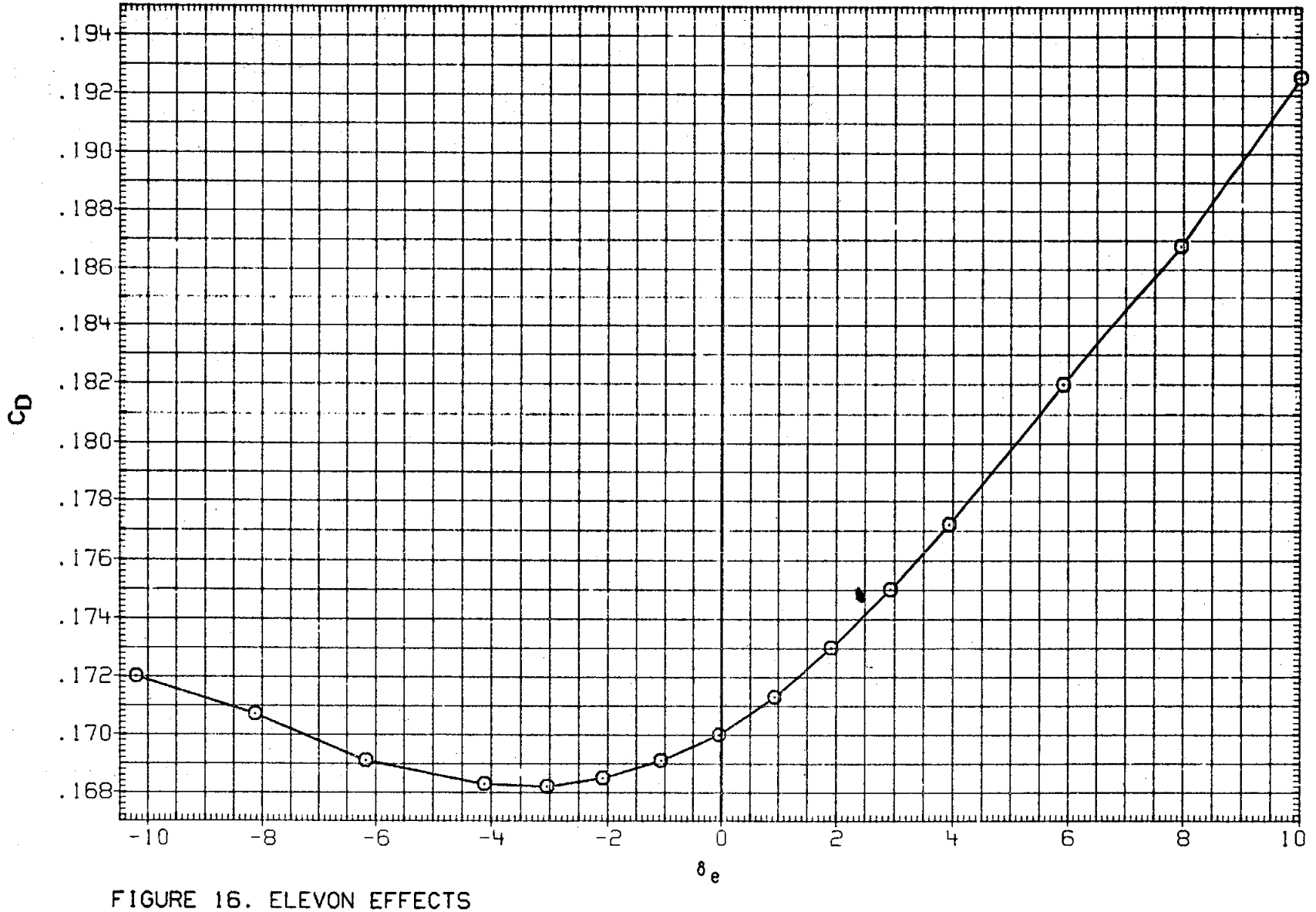

FIGURE 16. ELEVON EFFECTS

(J)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
R2F034	○	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RKN033	□	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	.000

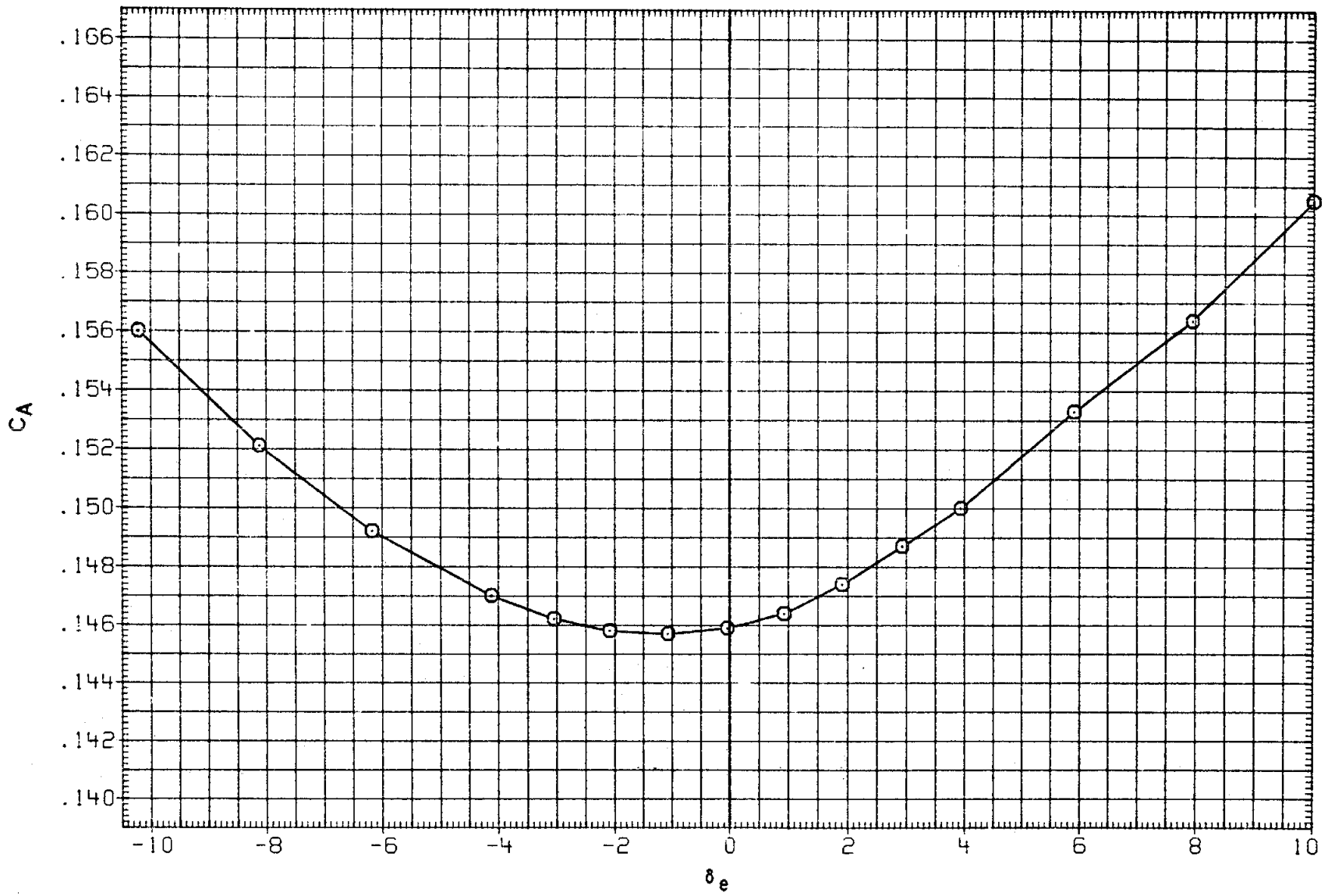

FIGURE 16. ELEVON EFFECTS

(J)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
OKN007	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0012	△	DATA NOT AVAILABLE	.000	.000	.000	16.380	25.500	-.030	.000
R2F058	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	16.300	25.000	.000	

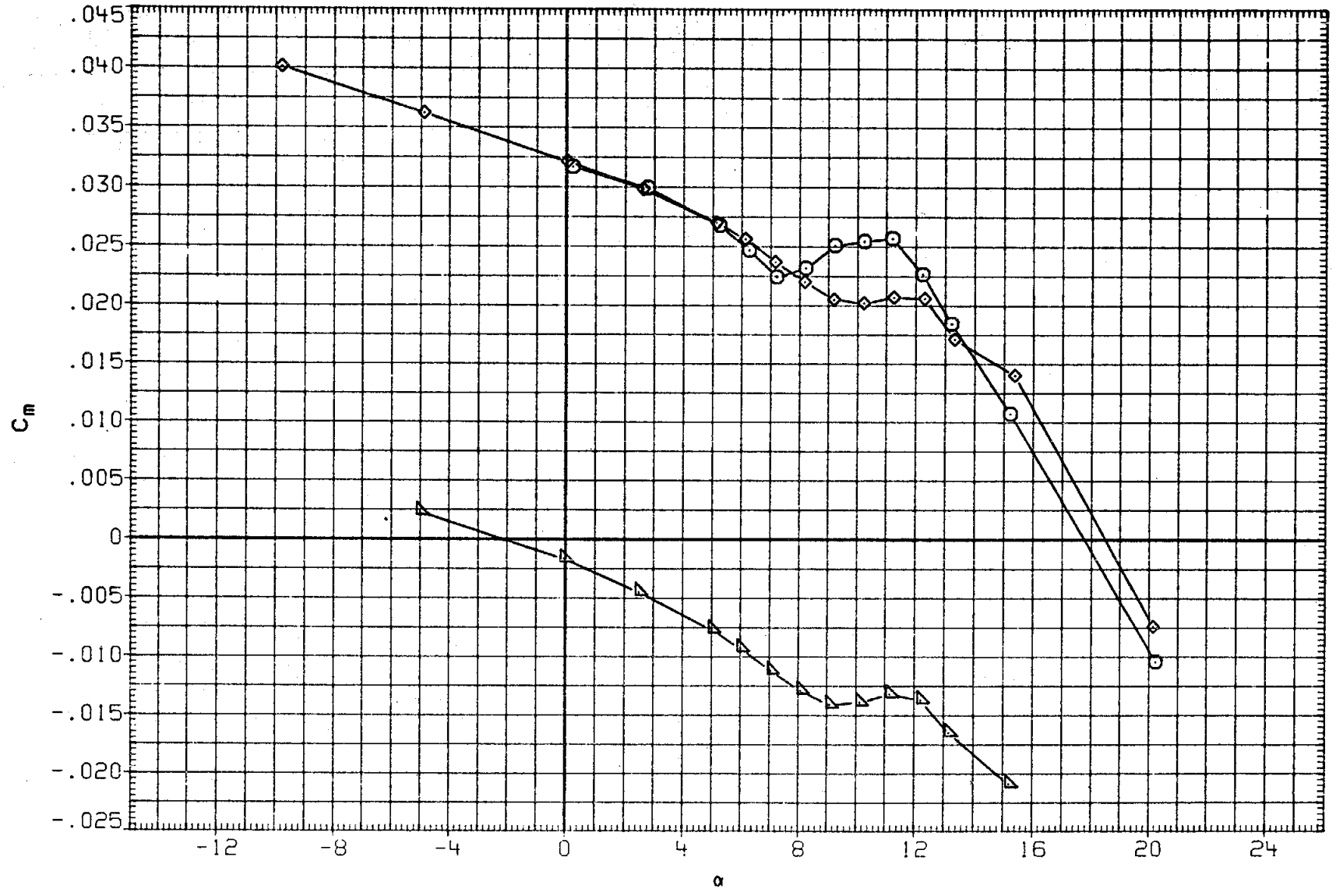

FIGURE 17. BASIC LONGITUDINAL, BODY FLAP EFFECTS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
OKN007	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0012	△	DATA NOT AVAILABLE	.000	.000	.000	16.380	25.500	-.030	.000
R2F058	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	16.300	25.000	.000	

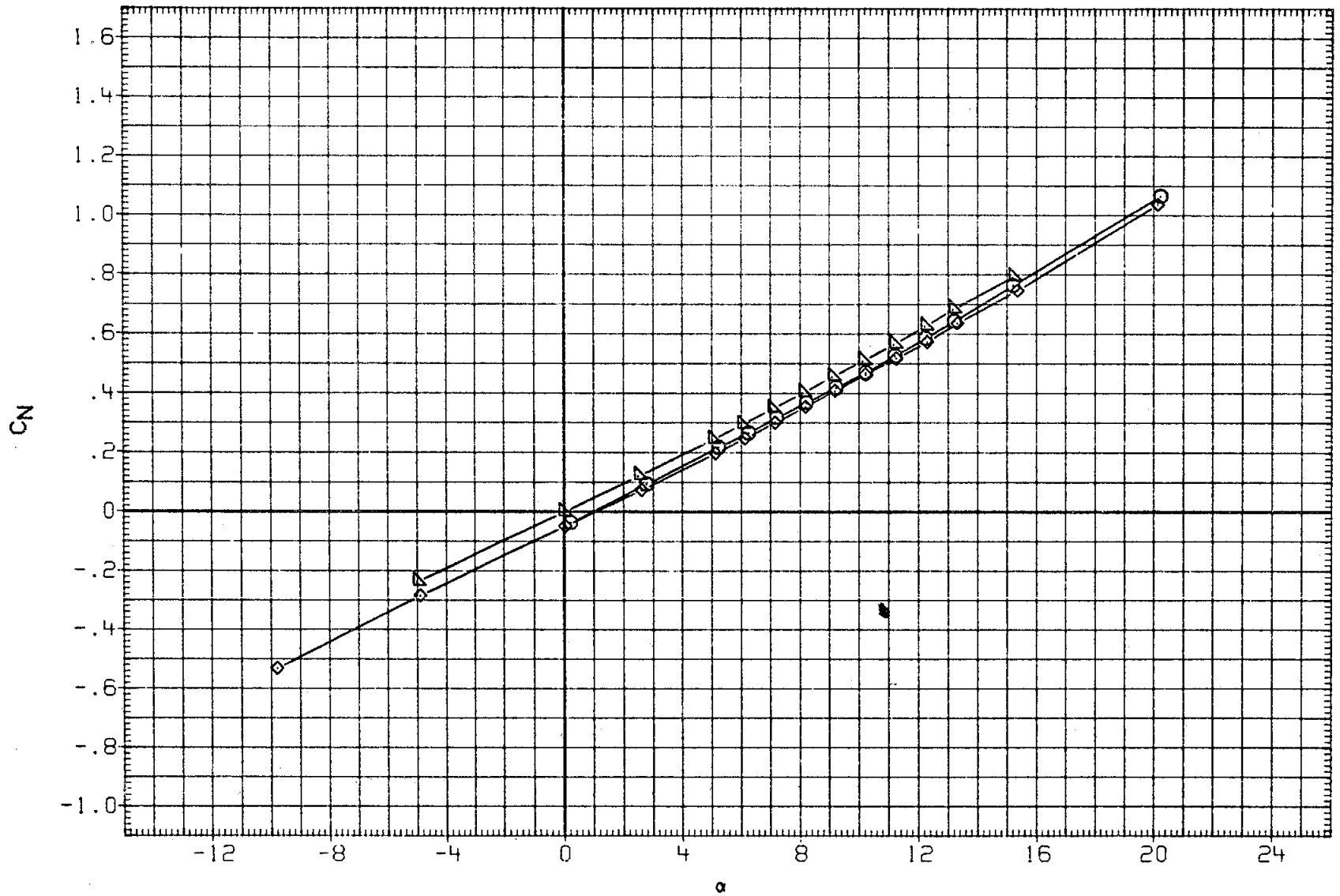

FIGURE 17. BASIC LONGITUDINAL, BODY FLAP EFFECTS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
OKN007	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0012	△	DATA NOT AVAILABLE	.000	.000	.000	16.380	25.500	-.030	.000
R2F058	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	16.300	25.000	.000	

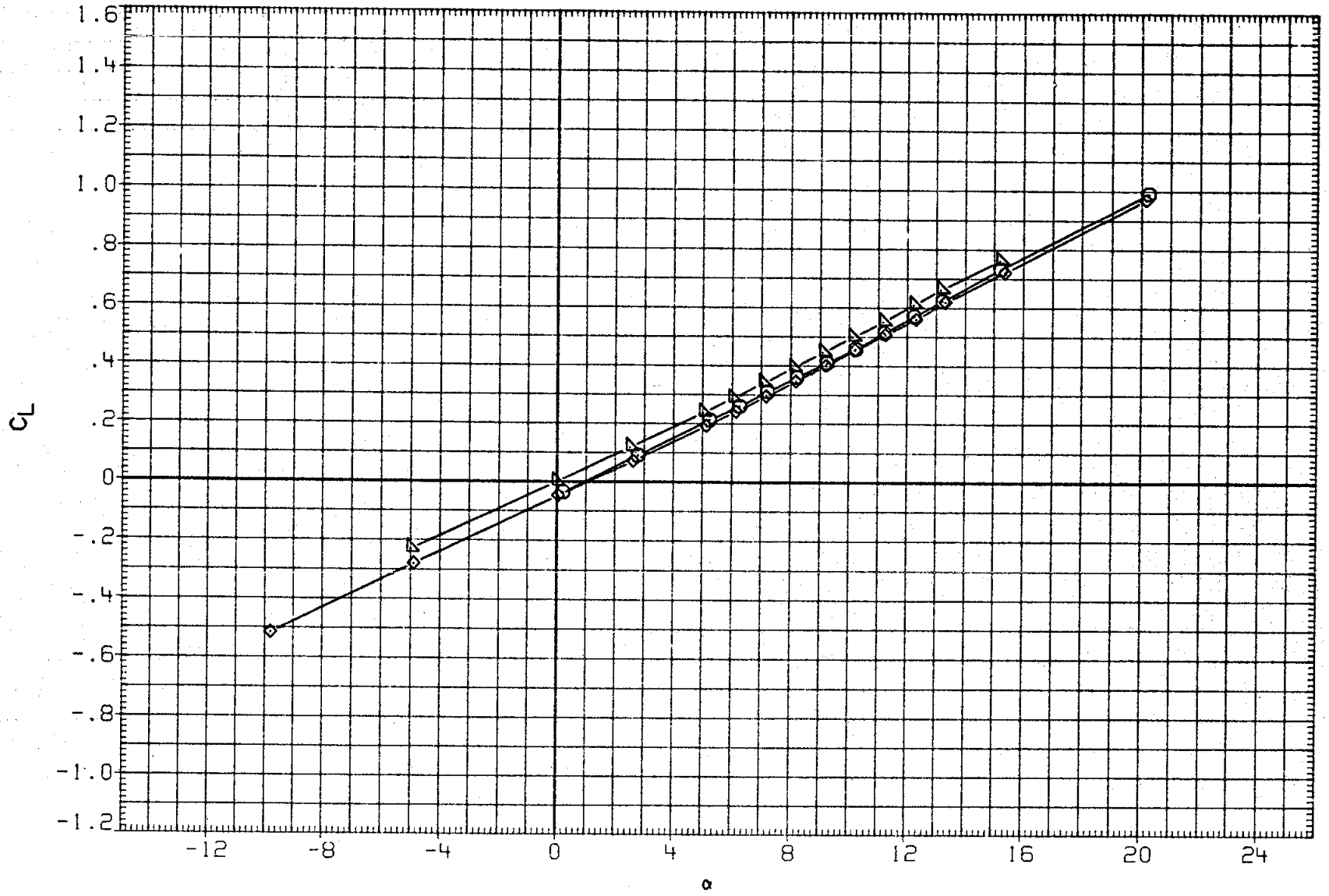

FIGURE 17. BASIC LONGITUDINAL, BODY FLAP EFFECTS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
OKN007	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0012	△	DATA NOT AVAILABLE	.000	.000	.000	16.380	25.500	-.030	.000
R2F058	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	16.300	25.000	.000	

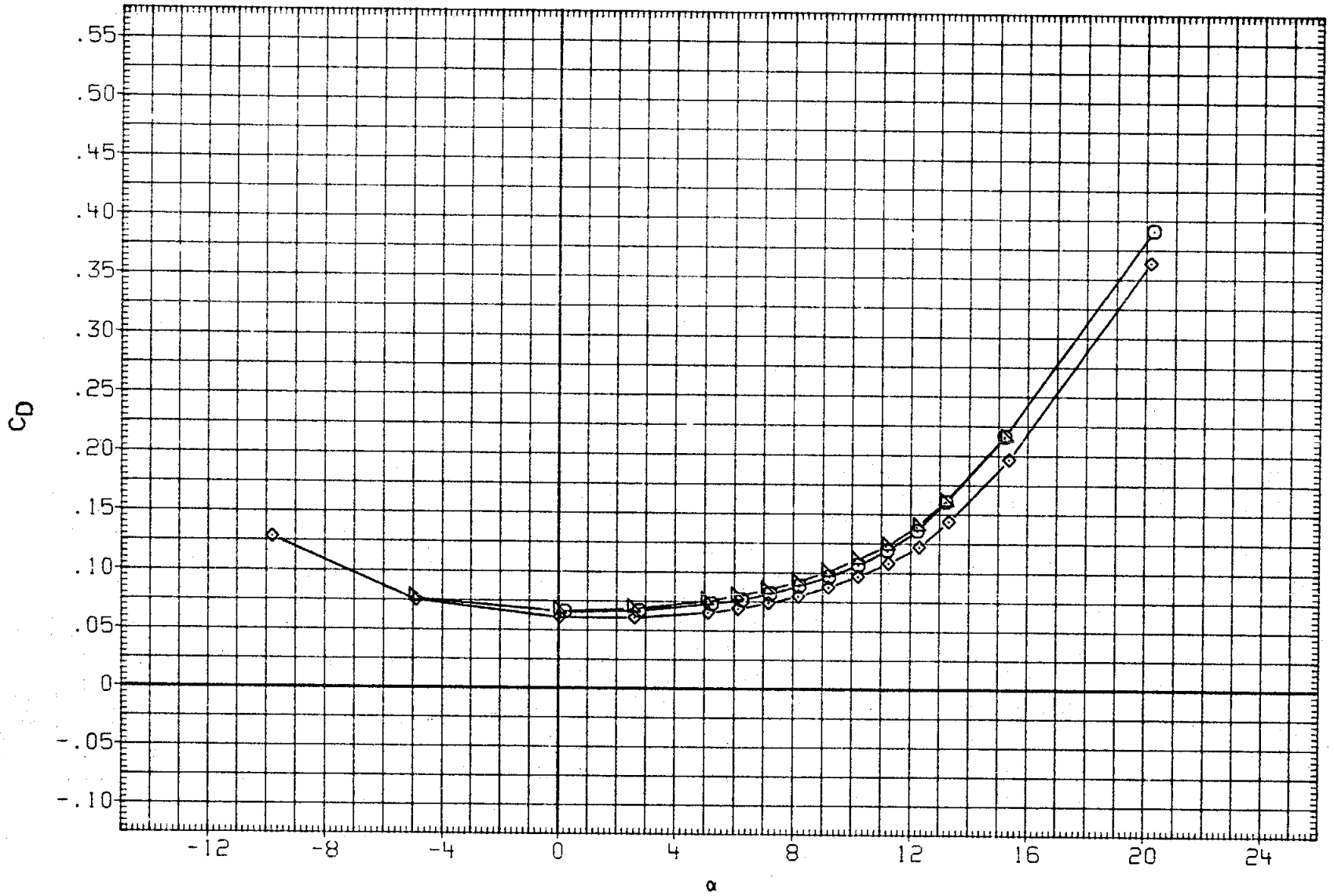

FIGURE 17. BASIC LONGITUDINAL, BODY FLAP EFFECTS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.
OKN007	□	DATA NOT AVAILABLE
R2F012	◇	AMES 118-1-11 OA145A 01
RK0012	△	DATA NOT AVAILABLE
R2F058	◺	AMES 118-1-11 OA145A 01

BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
.000	.000	.000	.000	25.500	-.030	.000
.000	.000	.000	.000	25.000	.000	.000
.000	.000	.000	.000	25.000	.000	
.000	.000	.000	16.380	25.500	-.030	.000
.000	.000	.000	16.300	25.000	.000	

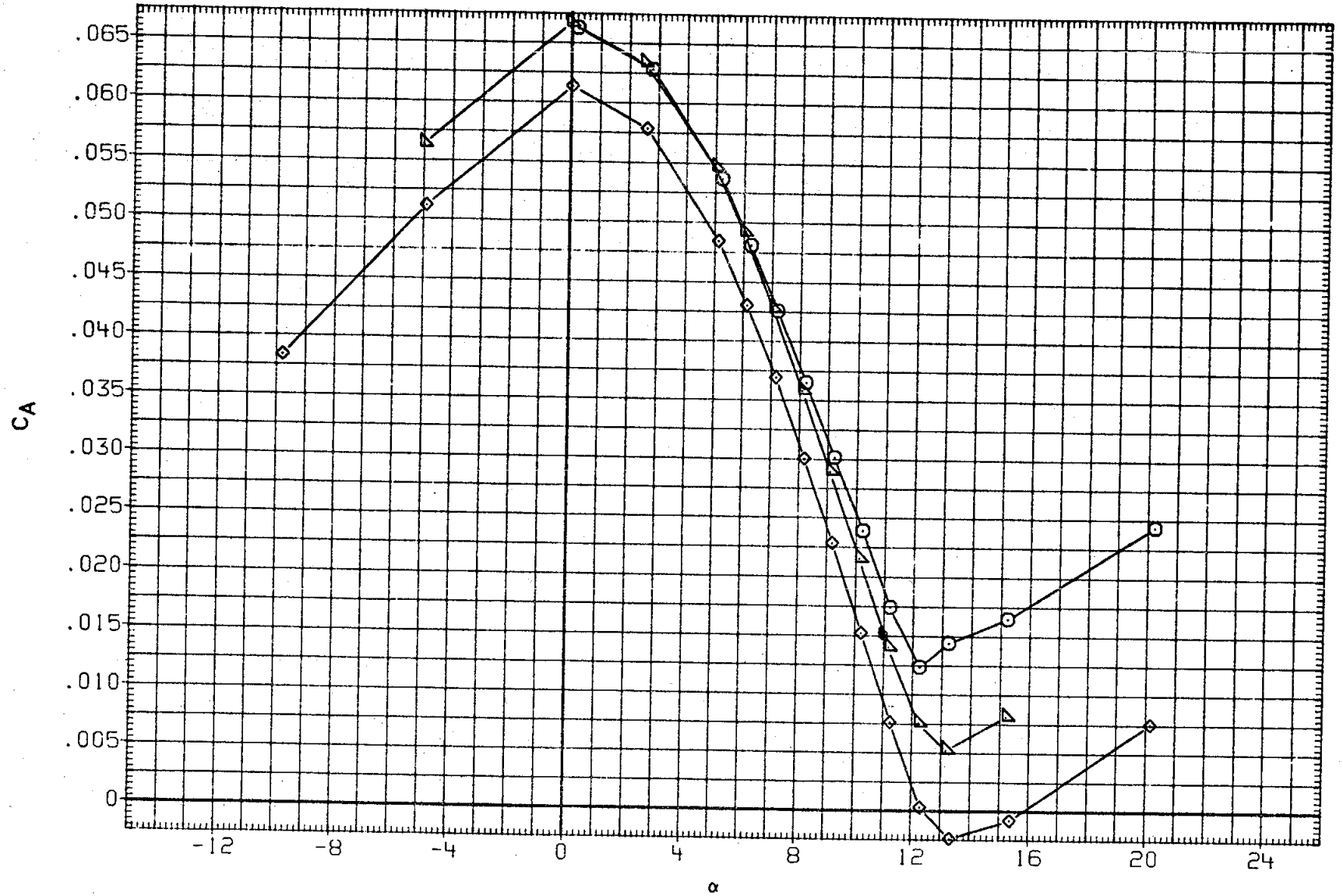

FIGURE 17. BASIC LONGITUDINAL, BODY FLAP EFFECTS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
OKN007	□	DATA NOT AVAILABLE	.000	.000	000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0012	△	DATA NOT AVAILABLE	.000	.000	.000	16.380	25.500	-.030	.000
R2F058	▷	AMES 118-1-11 OA145A 01	.000	.000	.000	16.300	25.000	.000	

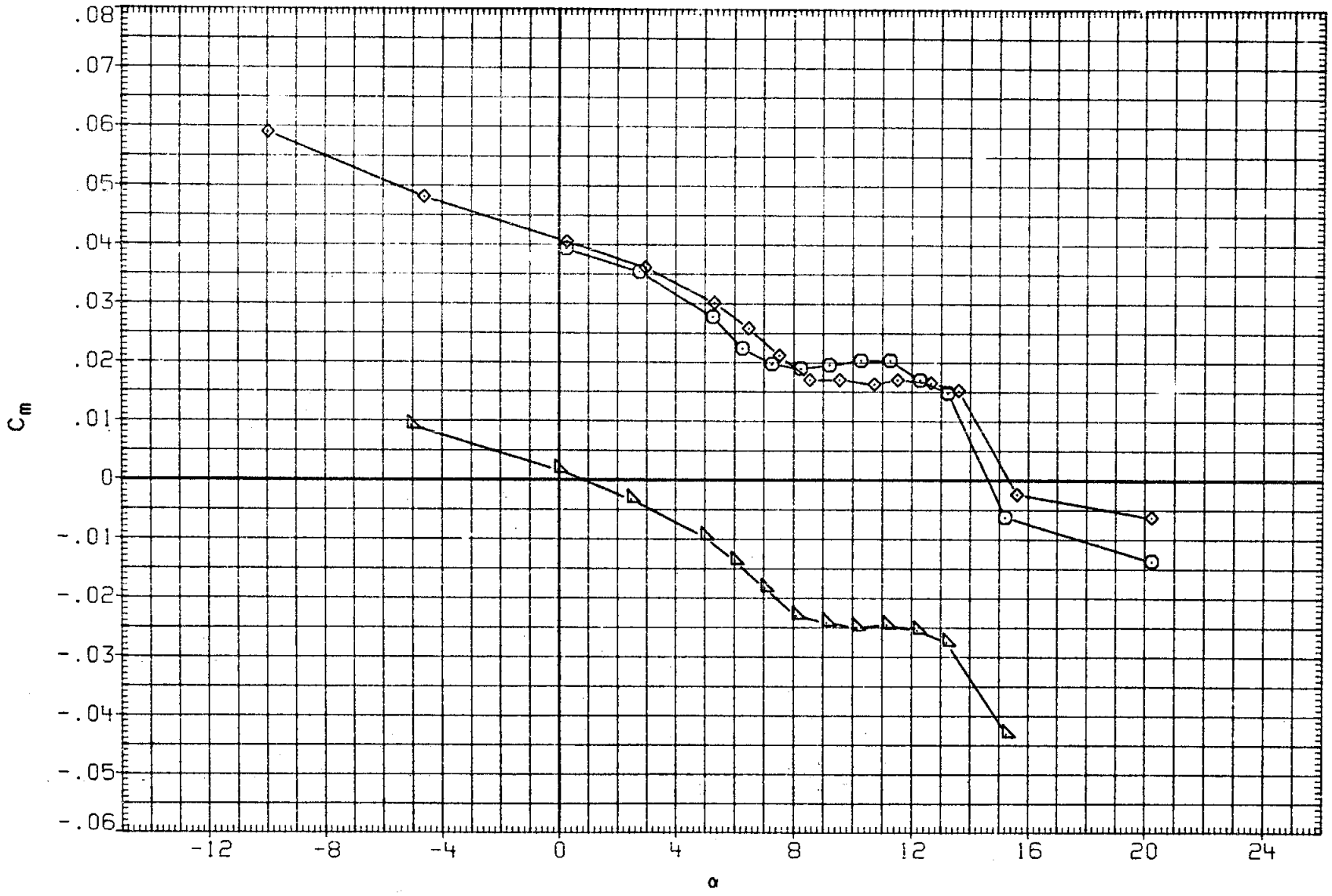

FIGURE 17. BASIC LONGITUDINAL, BODY FLAP EFFECTS

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
OKN007	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0012	△	DATA NOT AVAILABLE	.000	.000	.000	16.380	25.500	-.030	.000
R2F058	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	16.300	25.000	.000	

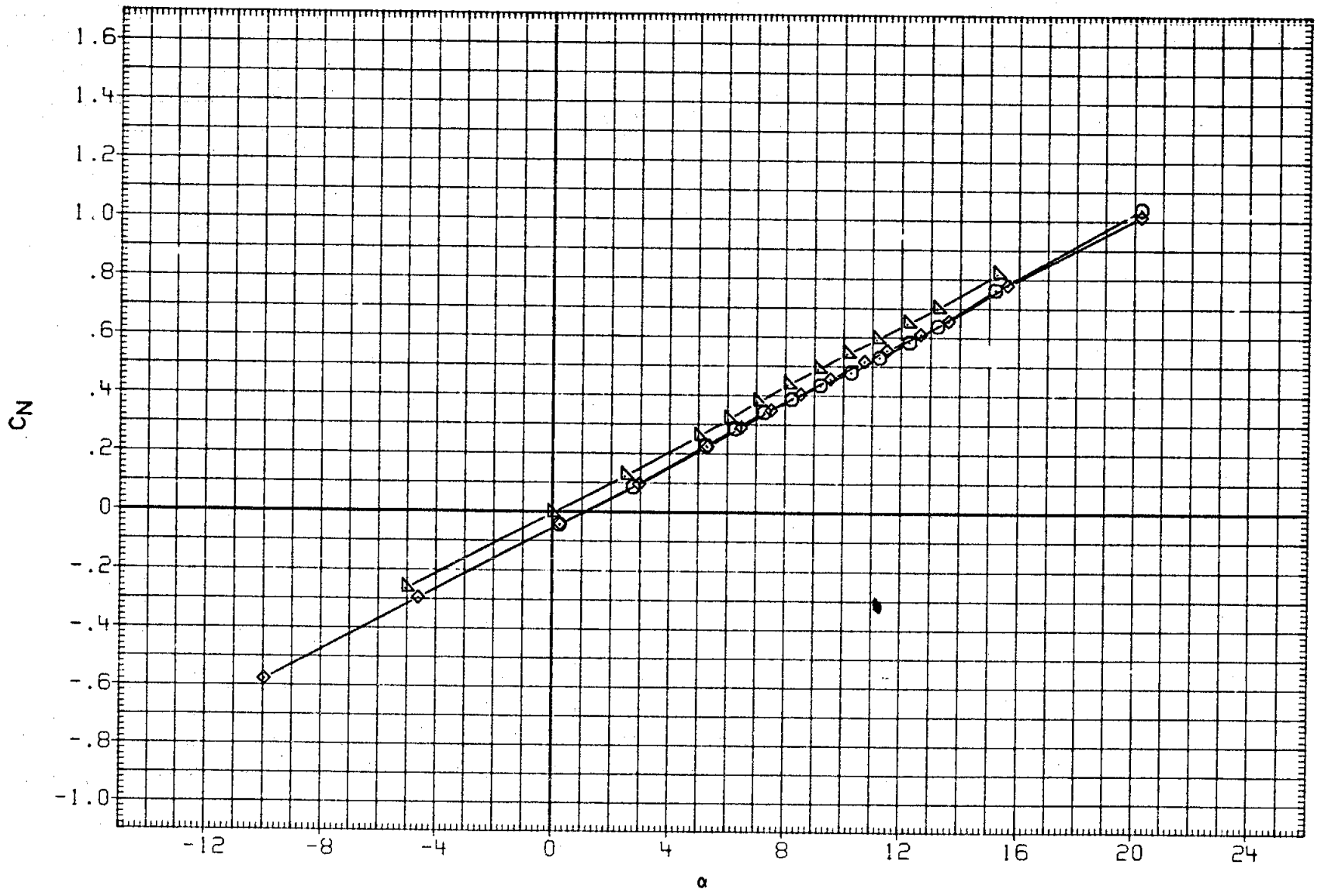

FIGURE 17. BASIC LONGITUDINAL, BODY FLAP EFFECTS

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
OKN007	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0012	△	DATA NOT AVAILABLE	.000	.000	.000	16.380	25.500	-.030	.000
R2F058	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	16.300	25.000	.000	

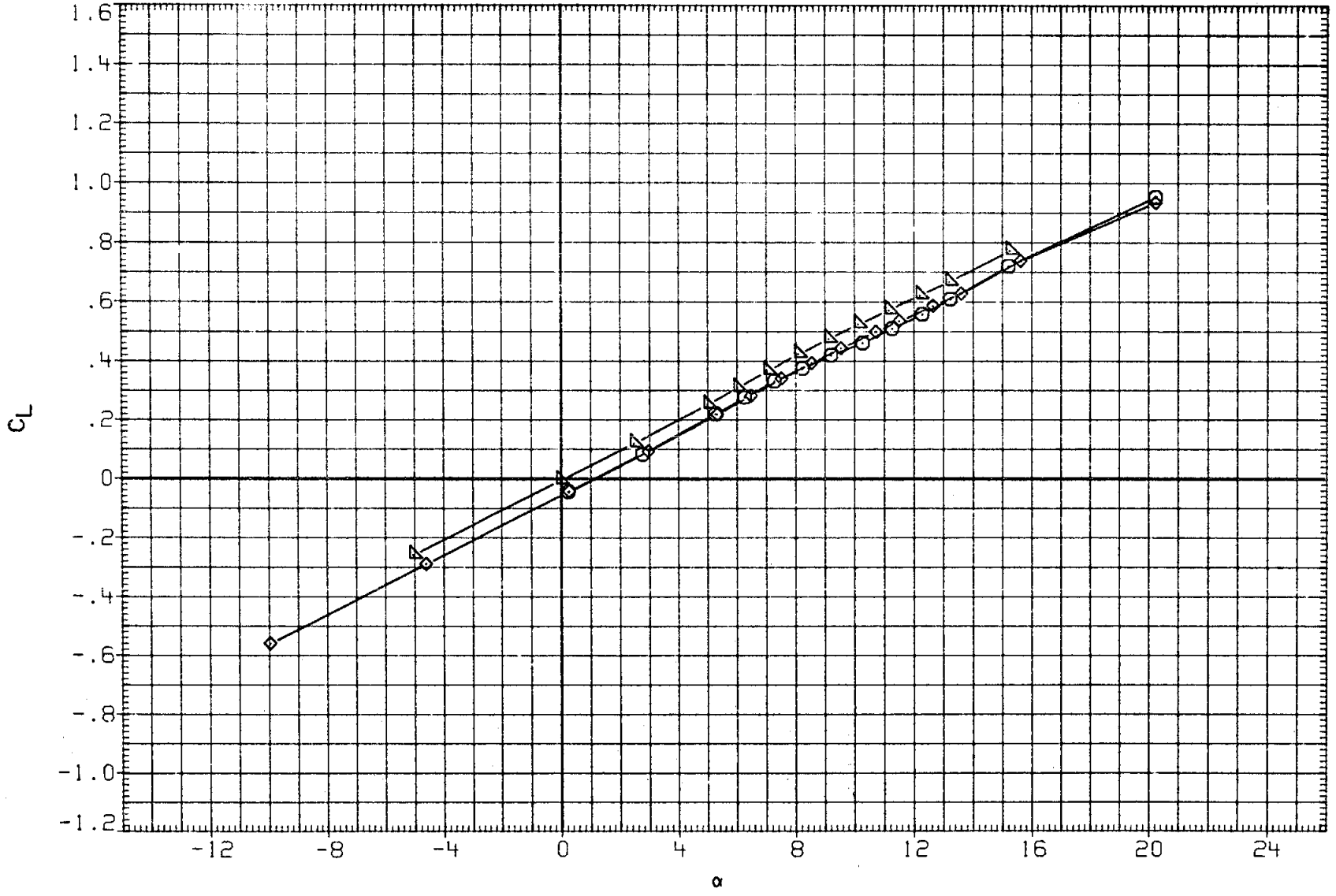

FIGURE 17. BASIC LONGITUDINAL, BODY FLAP EFFECTS

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
OKN007	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0012	△	DATA NOT AVAILABLE	.000	.000	.000	16.380	25.500	-.030	.000
R2F058	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	16.300	25.000	.000	

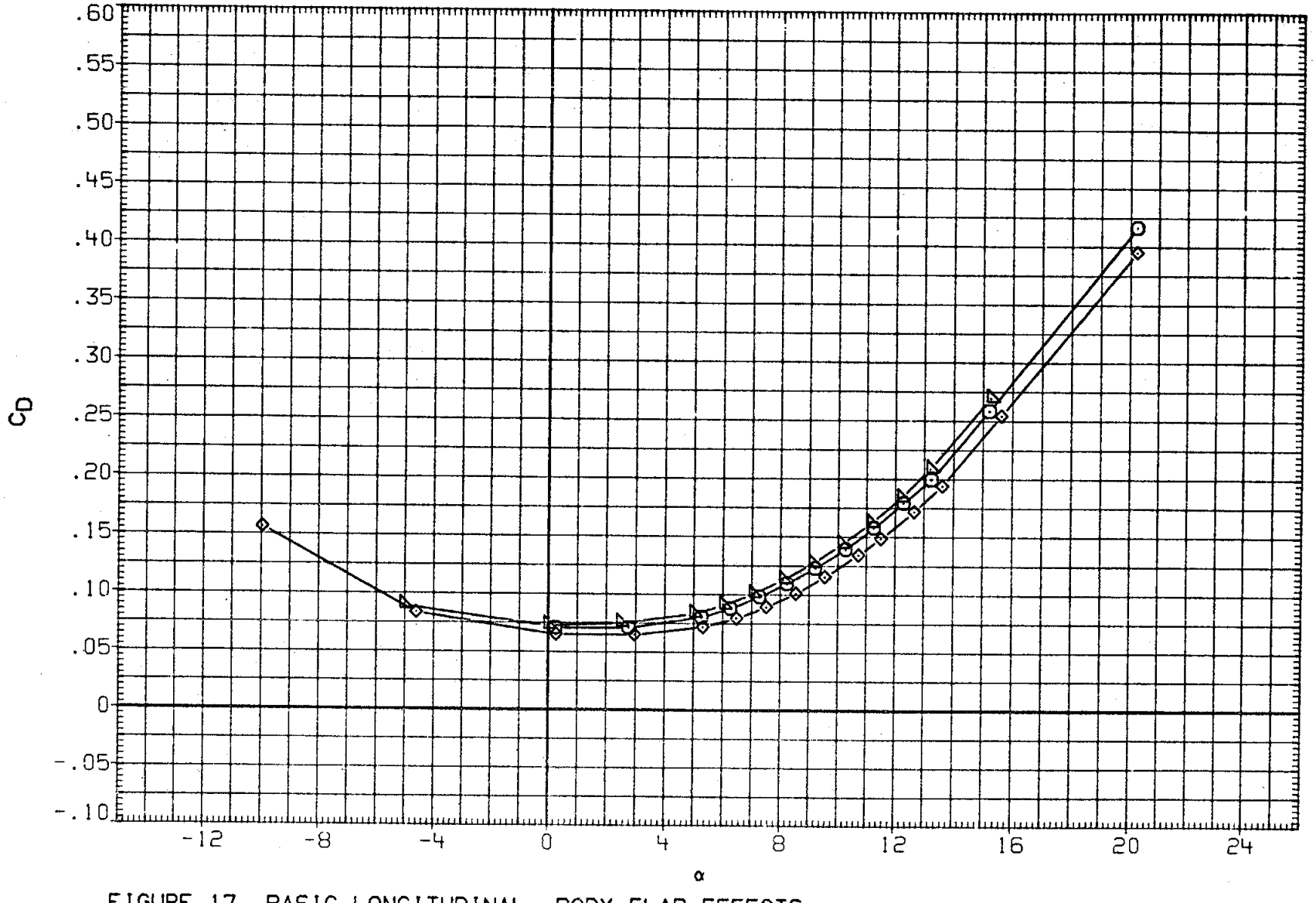

FIGURE 17. BASIC LONGITUDINAL, BODY FLAP EFFECTS

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
OKN007	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0012	△	DATA NOT AVAILABLE	.000	.000	.000	16.380	25.500	-.030	.000
R2F058	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	16.300	25.000	.000	

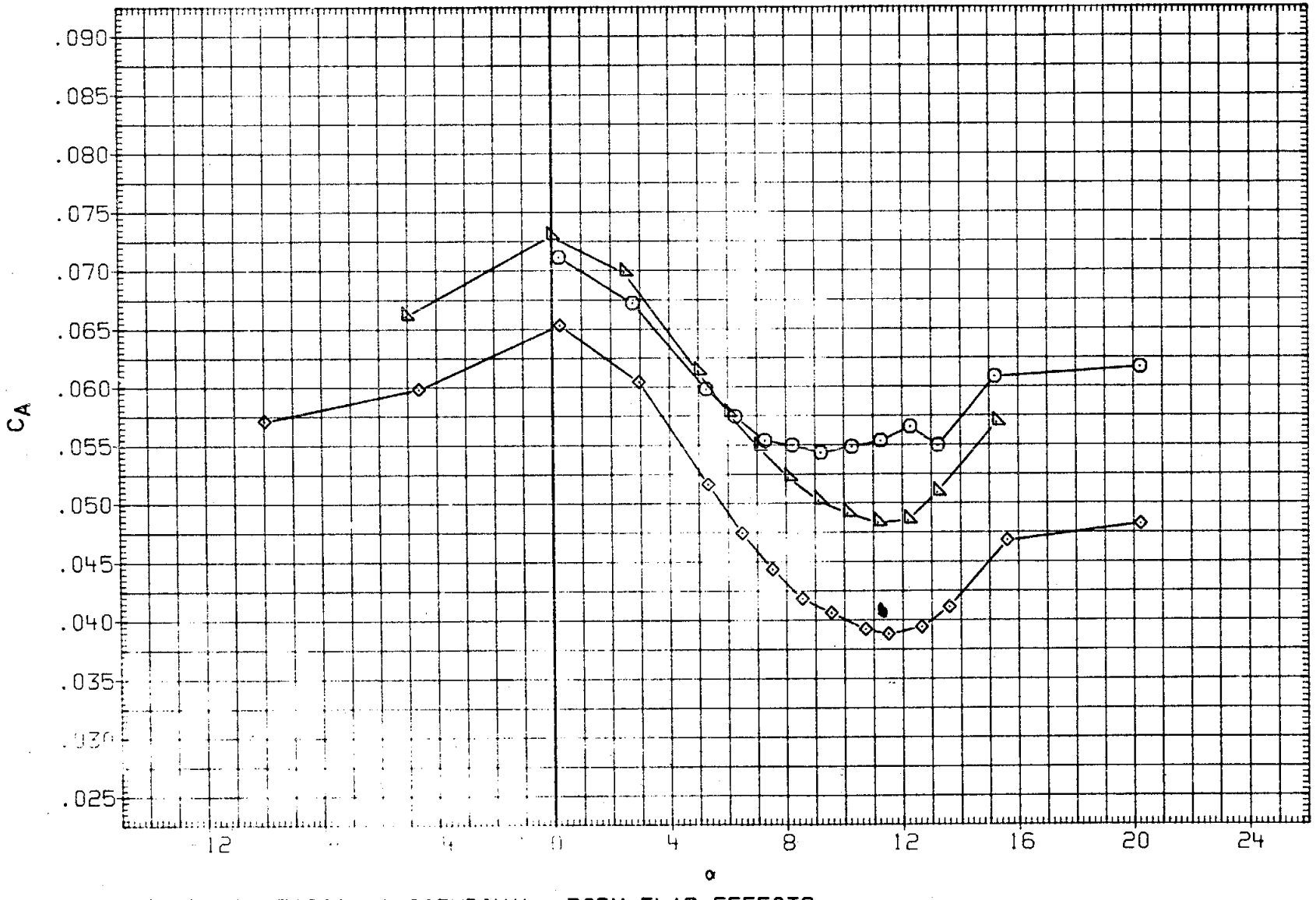

FIGURE 17. BASIC LONGITUDINAL, BODY FLAP EFFECTS

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION
RK0001	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.
OKN007	□	LARC 16FT TWT 326(0A270A) 39-0 ORB.
R2F012	◇	AMES 118-1-11 0A145A 01
RK0012	△	LARC 16FT TWT 325(0A270B) 105-0 ORB.
R2F058	◺	AMES 118-1-11 0A145A 01

BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
.000	.000	.000	.000	25.500	-.030	.000
.000	.000	.000	.000	25.000	.000	.000
.000	.000	.000	.000	25.000	.000	
.000	.000	.000	16.380	25.500	-.030	.000
.000	.000	.000	16.300	25.000	.000	

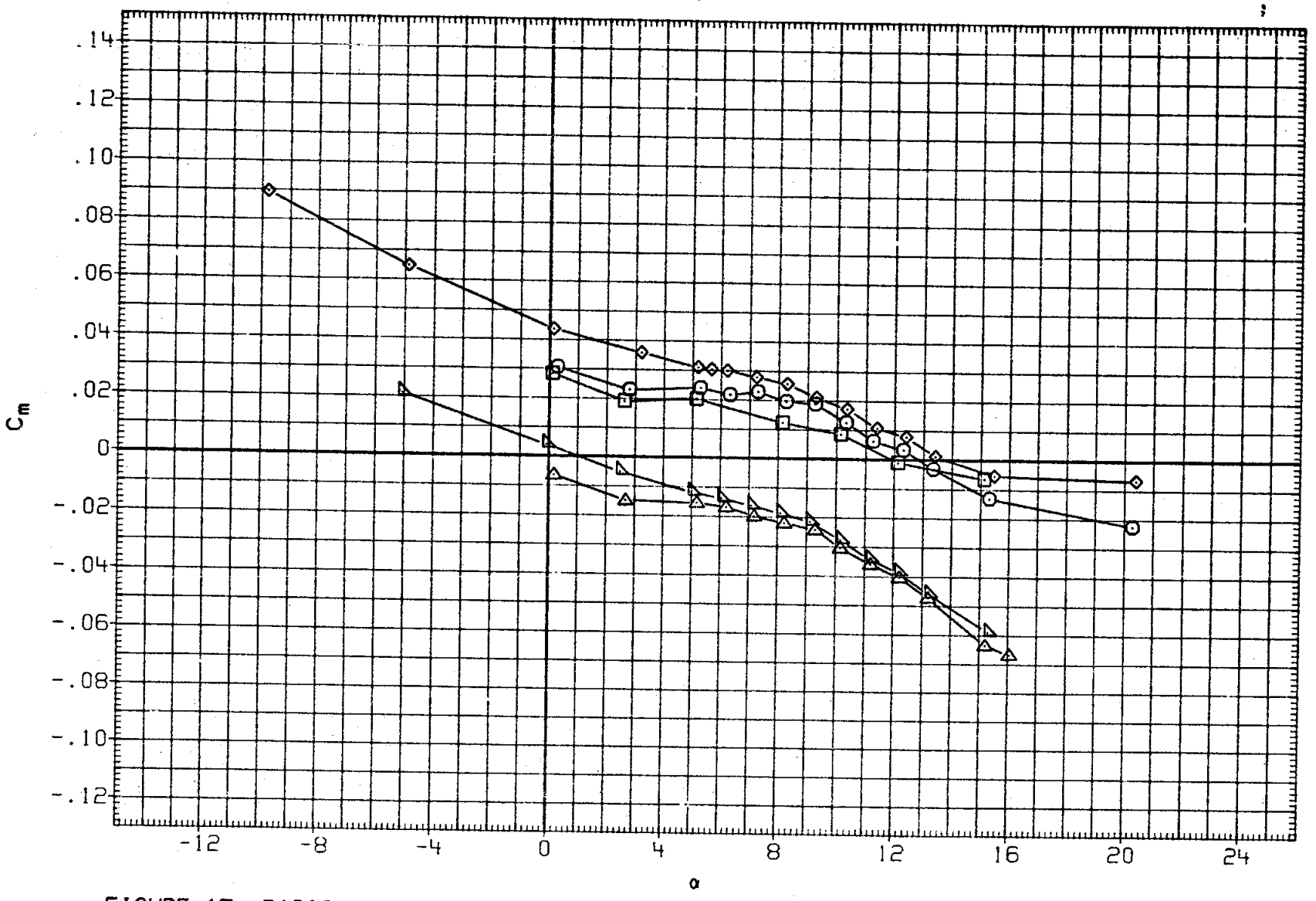

FIGURE 17. BASIC LONGITUDINAL, BODY FLAP EFFECTS

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
OKN007	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0012	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	16.380	25.500	-.030	.000
R2F058	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	16.300	25.000	.000	

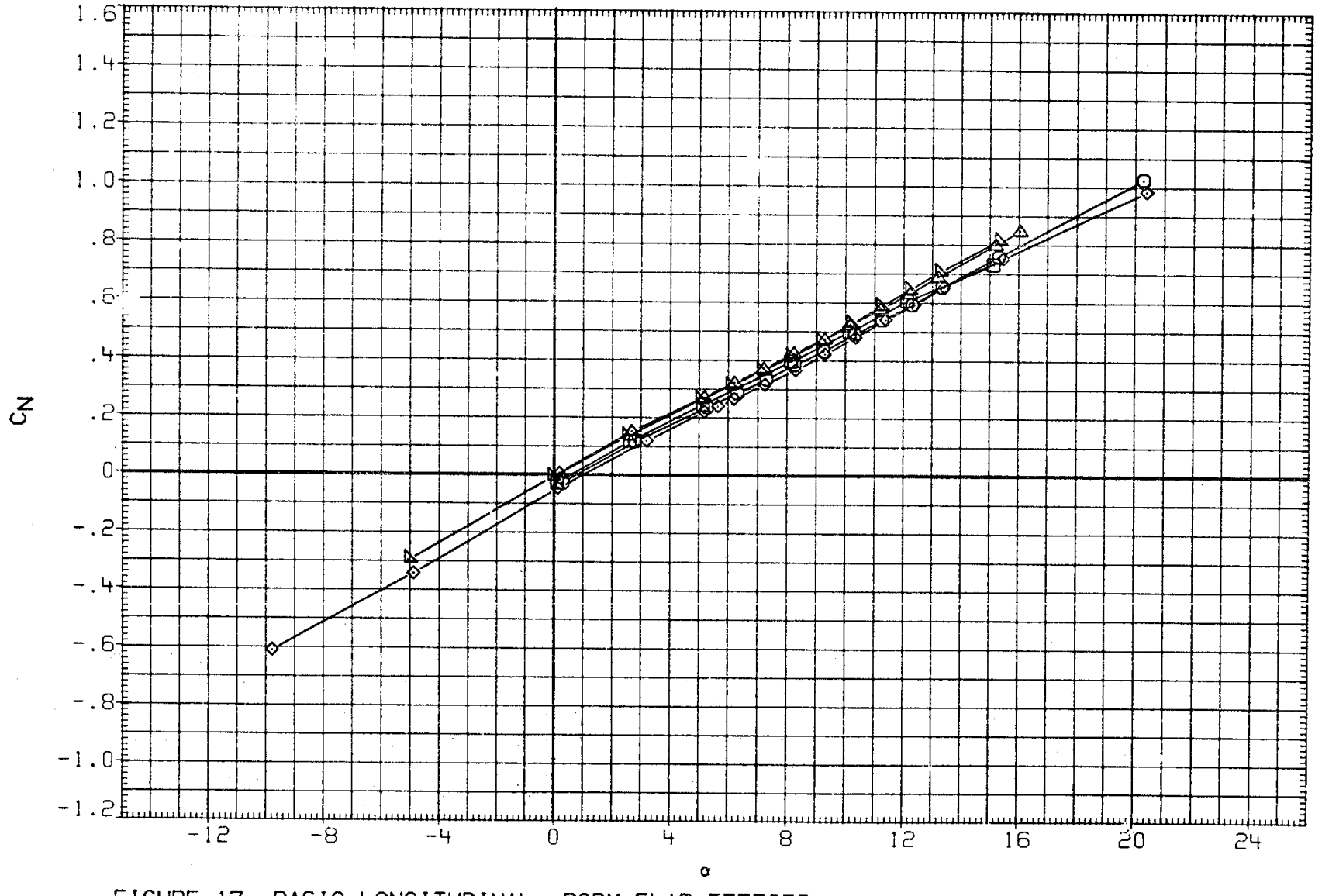

FIGURE 17. BASIC LONGITUDINAL, BODY FLAP EFFECTS

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
OKN007	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0012	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	16.380	25.500	-.030	.000
R2F058	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	16.300	25.000	.000	

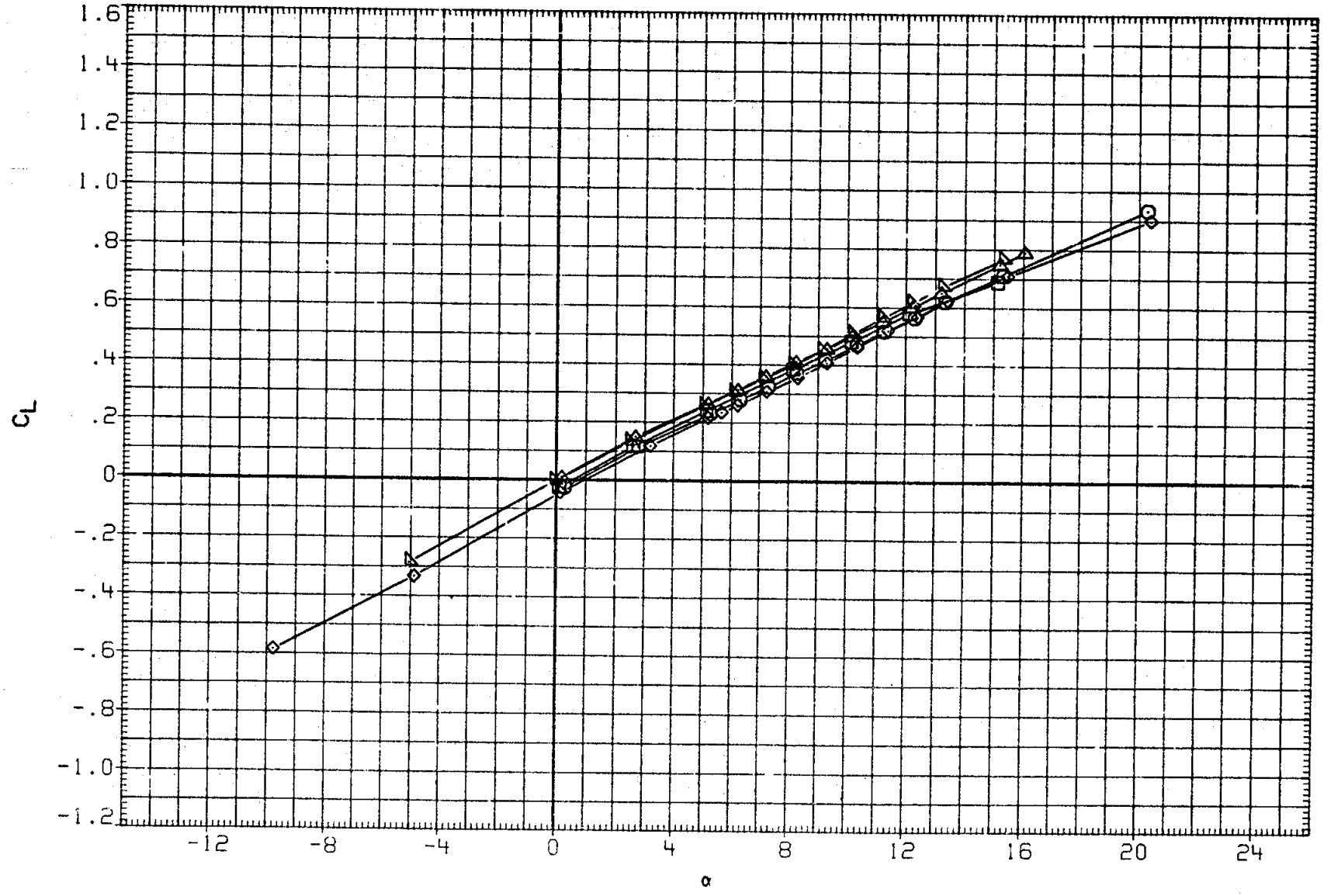

FIGURE 17. BASIC LONGITUDINAL, BODY FLAP EFFECTS

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
OKN007	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0012	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	16.380	25.500	-.030	.000
R2F058	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	16.300	25.000	.000	

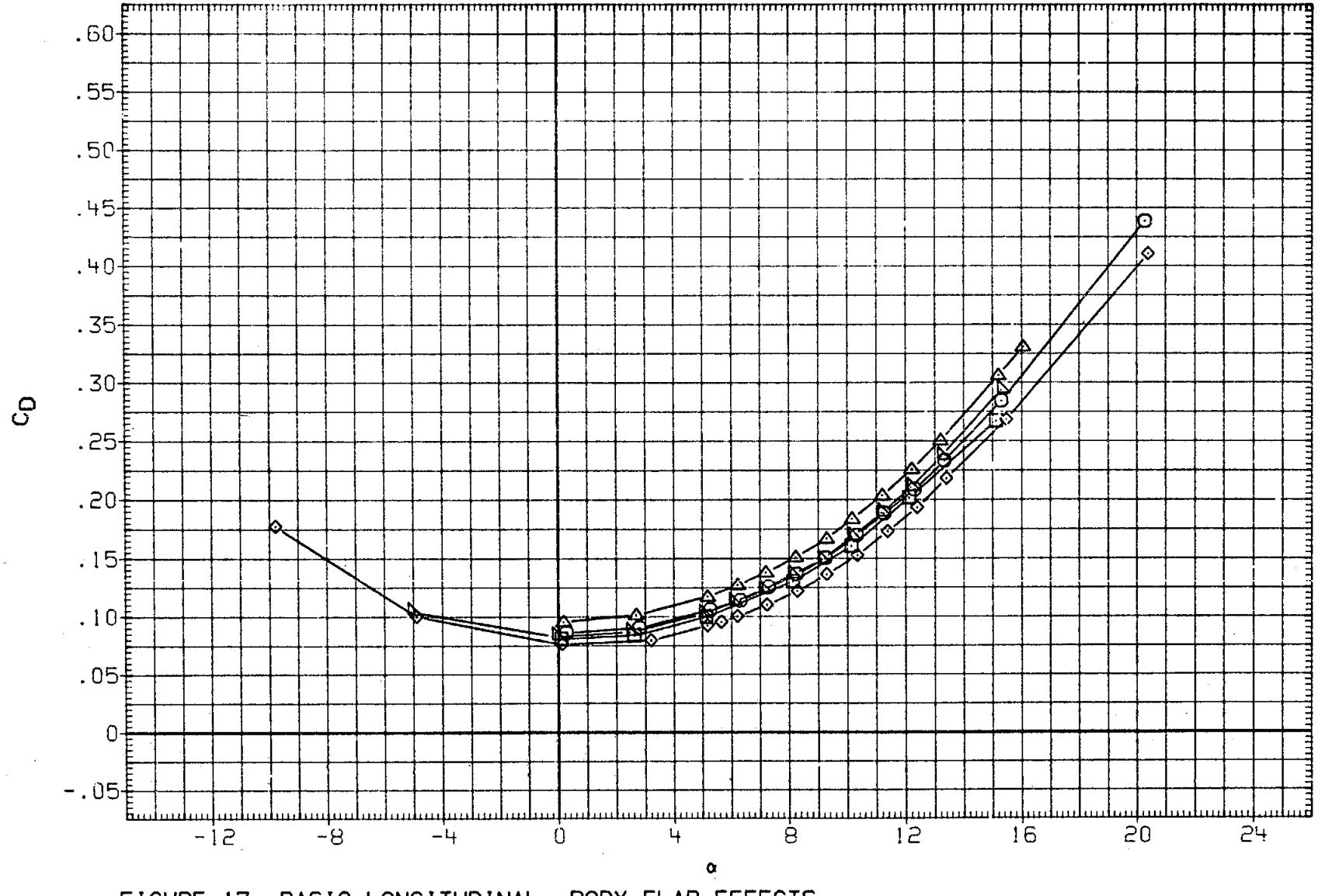

FIGURE 17. BASIC LONGITUDINAL, BODY FLAP EFFECTS

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
OKN007	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 11B-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0012	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	16.380	25.500	-.030	.000
R2F058	◺	AMES 11B-1-11 OA145A 01	.000	.000	.000	16.300	25.000	.000	

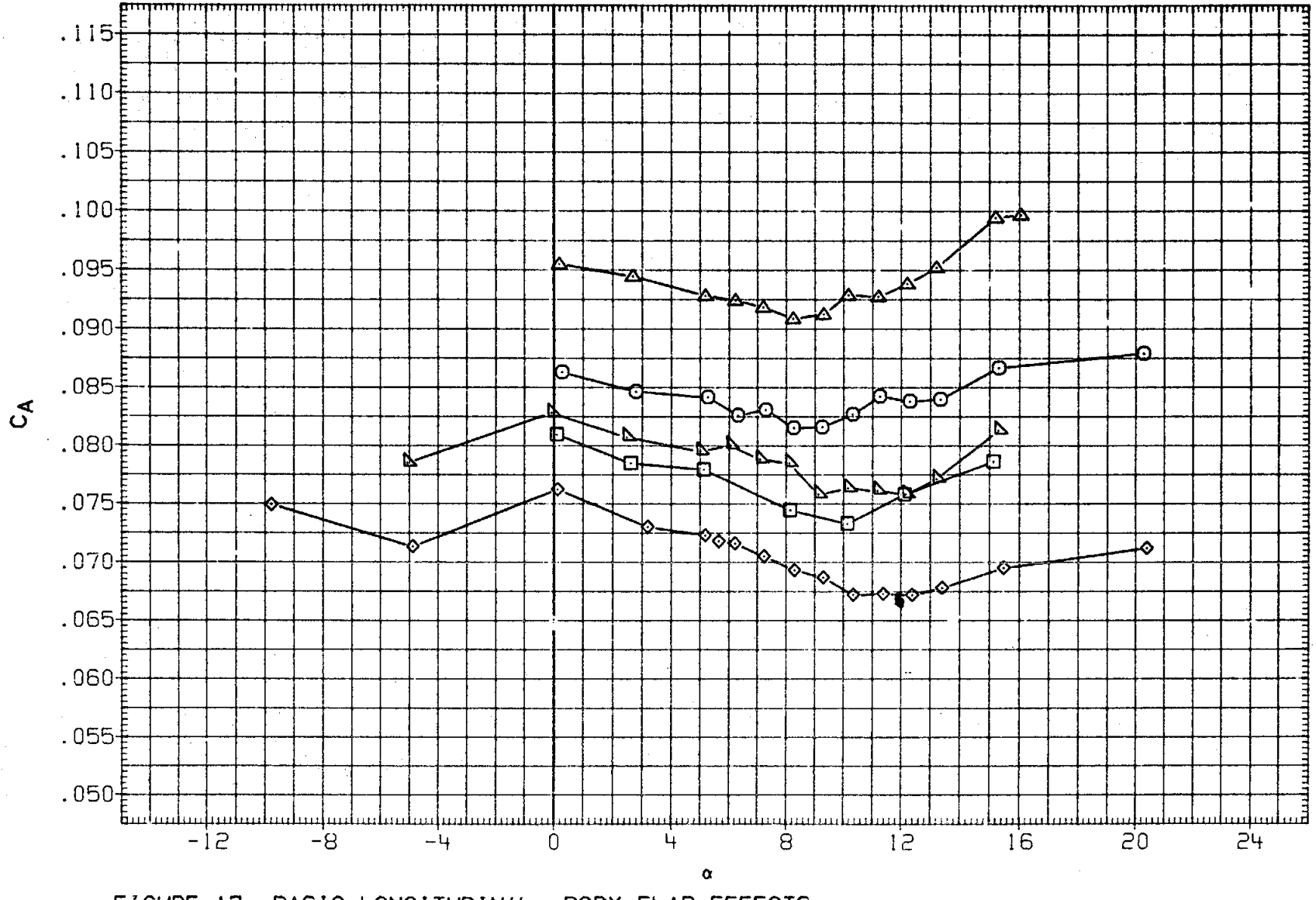

FIGURE 17. BASIC LONGITUDINAL, BODY FLAP EFFECTS

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
OKN007	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0012	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	16.380	25.500	-.030	.000
R2F058	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	16.300	25.000	.000	

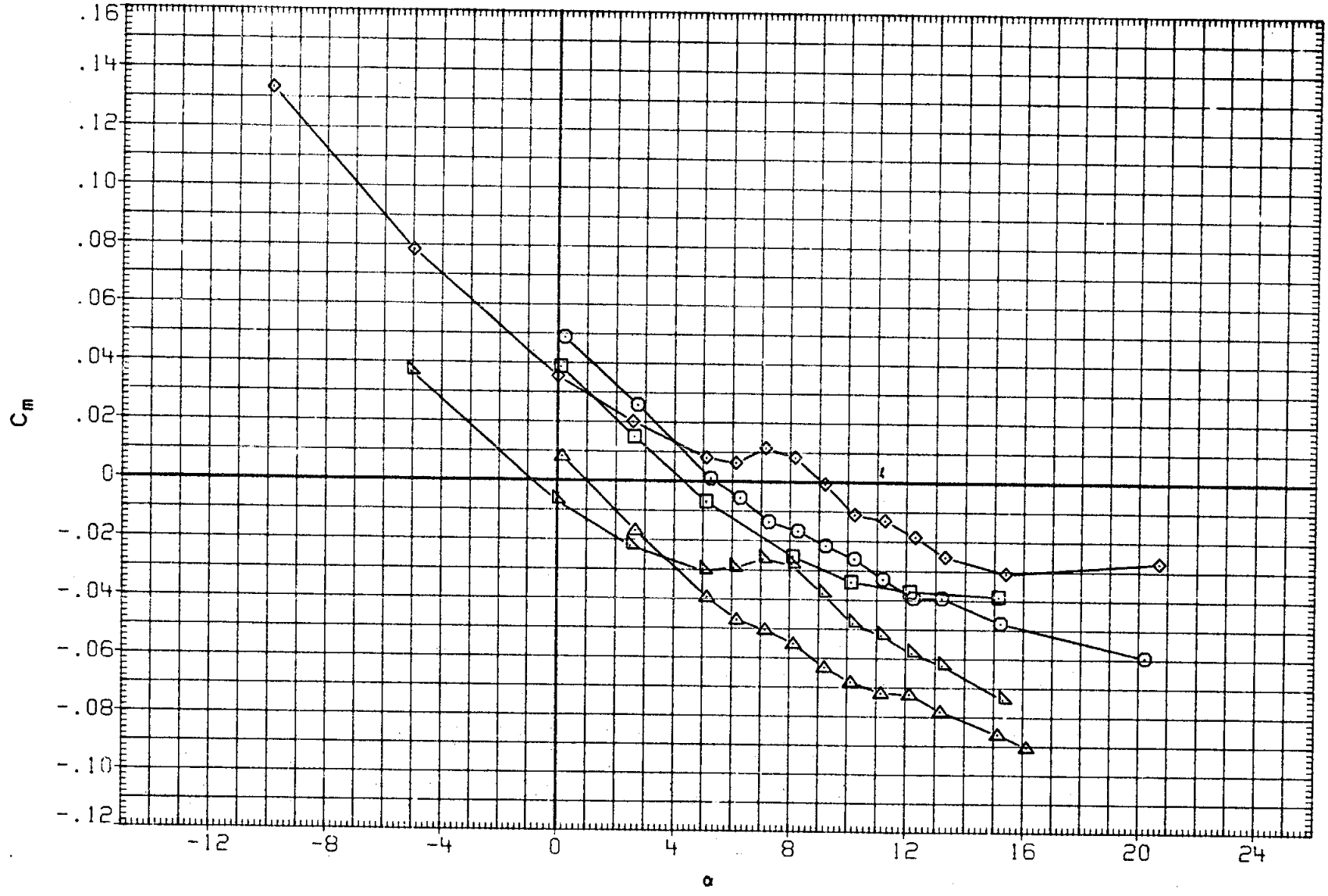

FIGURE 17. BASIC LONGITUDINAL, BODY FLAP EFFECTS

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
OKN007	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0012	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	16.380	25.500	-.030	.000
R2F058	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	16.300	25.000	.000	

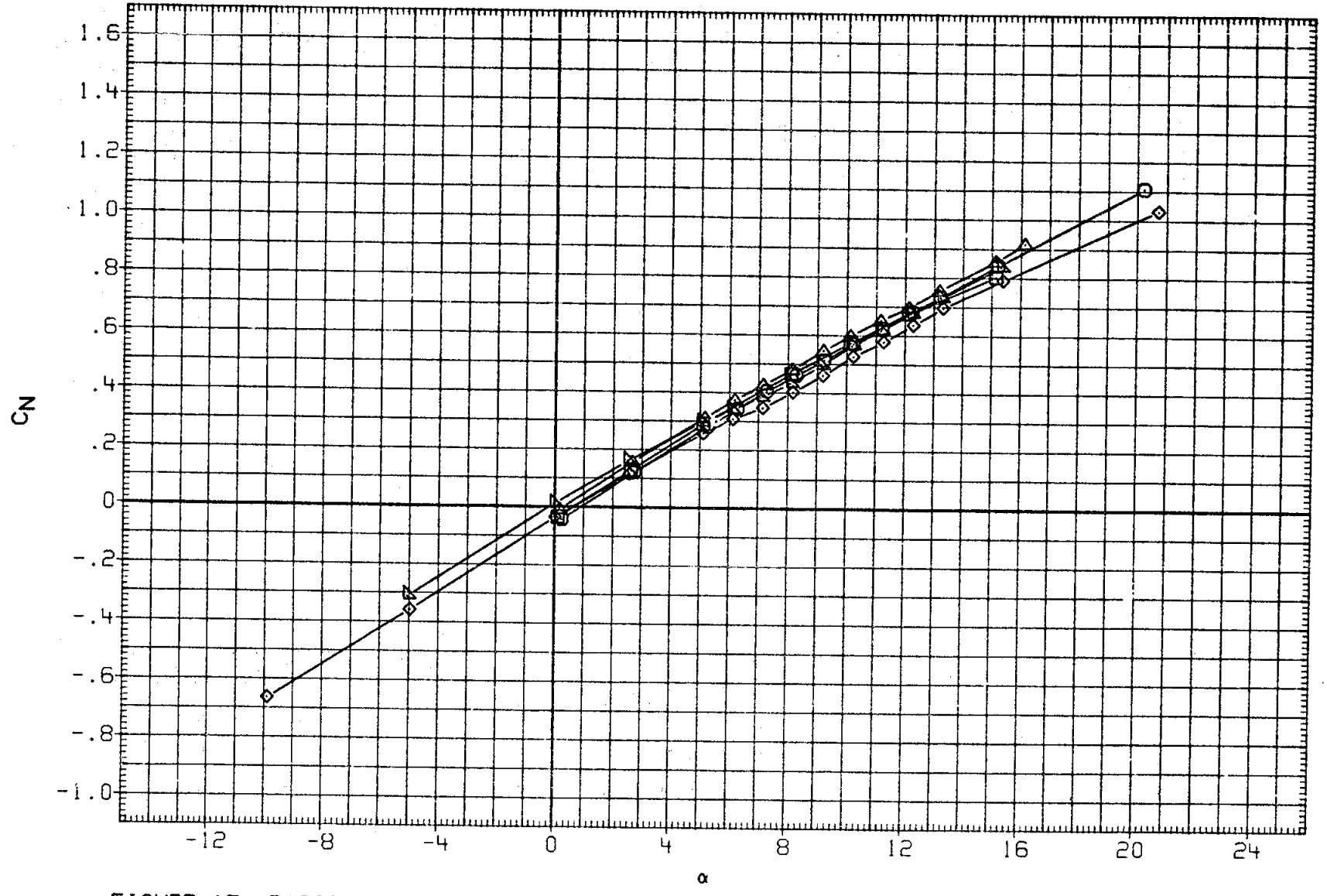

FIGURE 17. BASIC LONGITUDINAL, BODY FLAP EFFECTS

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
OKN007	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0012	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	16.380	25.500	-.030	.000
R2F058	▷	AMES 118-1-11 OA145A 01	.000	.000	.000	16.300	25.000	.000	

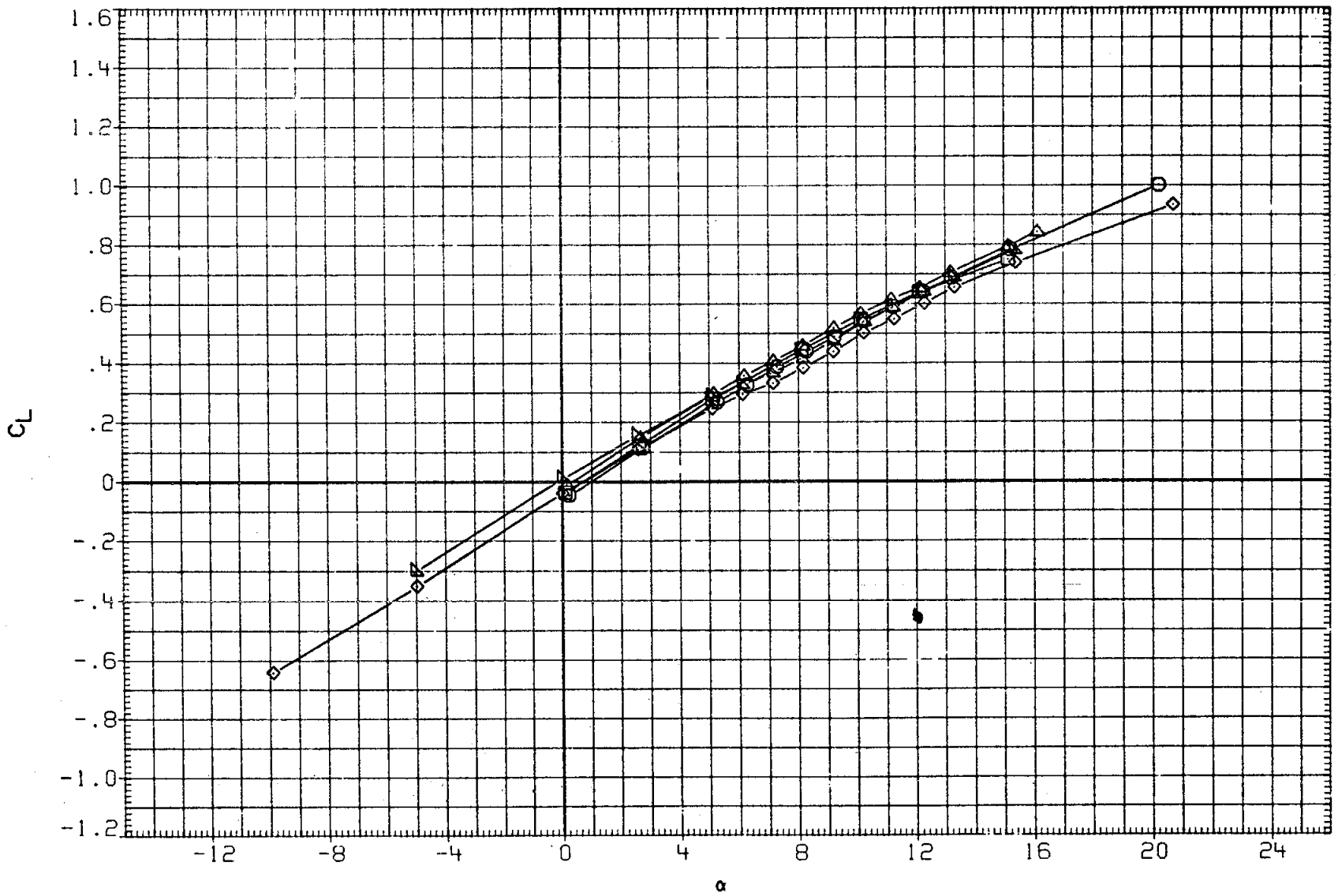

FIGURE 17. BASIC LONGITUDINAL, BODY FLAP EFFECTS

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
OKN007	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0012	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	16.380	25.500	-.030	.000
R2F058	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	16.300	25.000	.000	

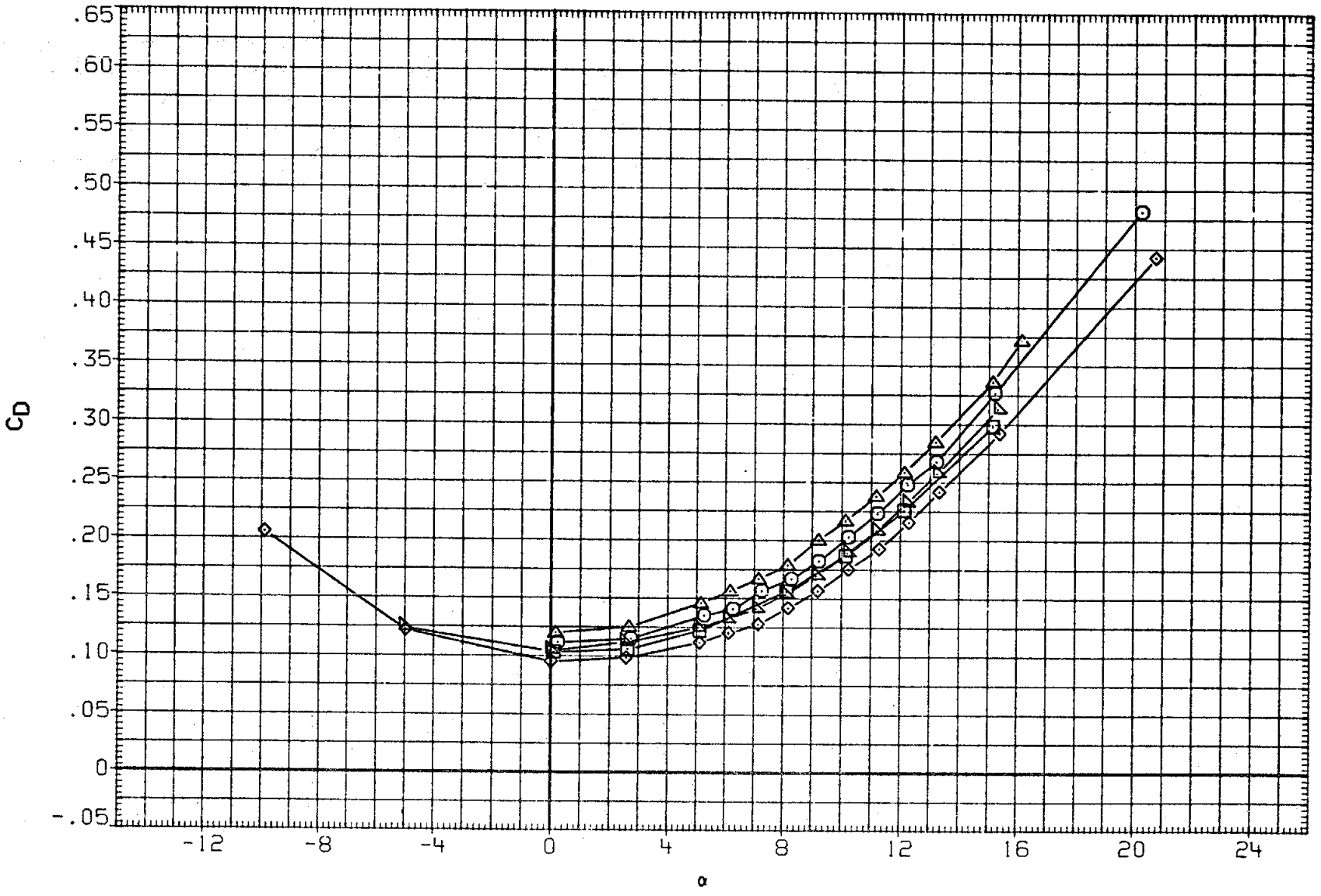

FIGURE 17. BASIC LONGITUDINAL, BODY FLAP EFFECTS

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
OKN007	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0012	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	16.380	25.500	-.030	.000
R2F058	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	16.300	25.000	.000	

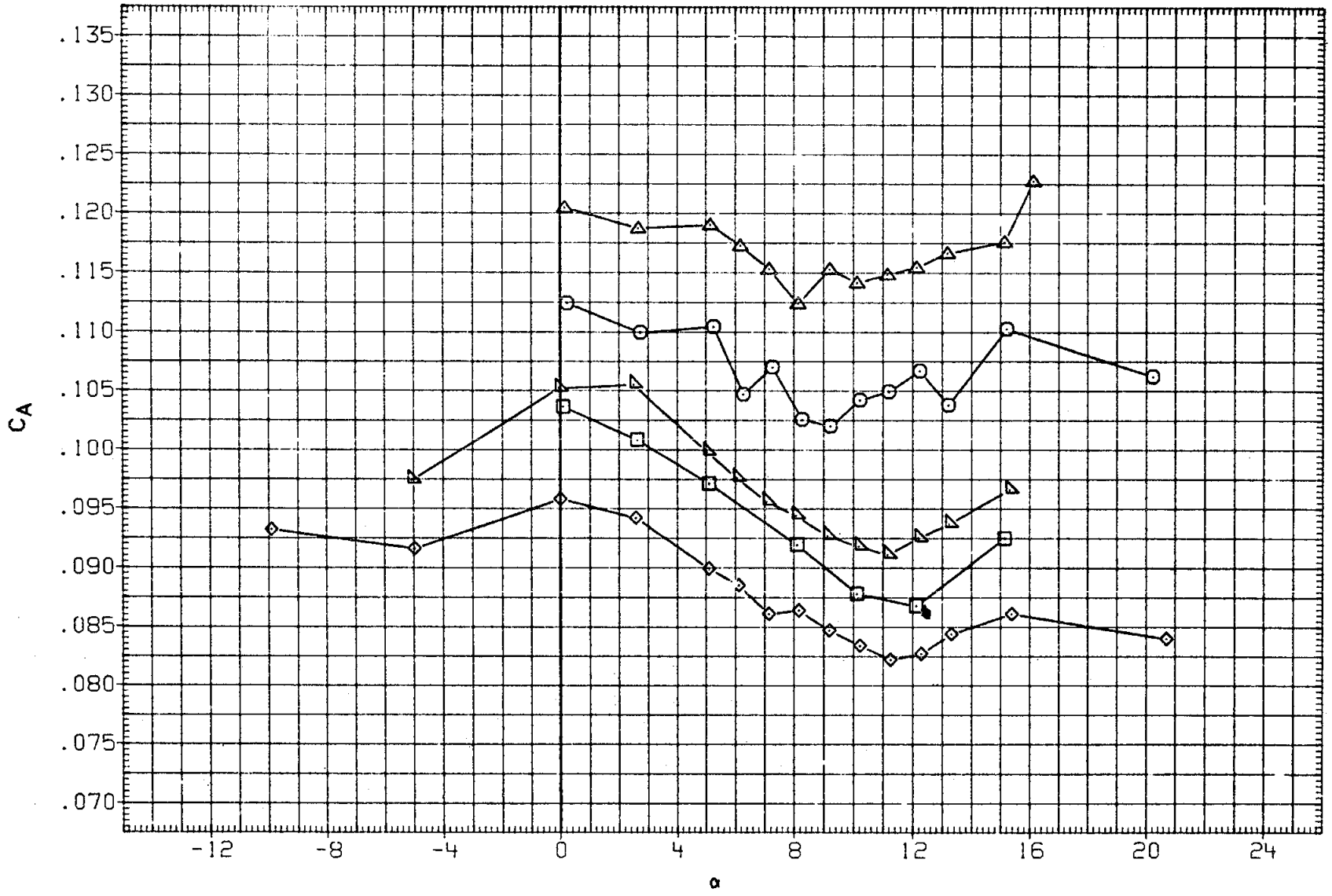

FIGURE 17. BASIC LONGITUDINAL, BODY FLAP EFFECTS

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
OKN007	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RK0012	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	16.380	25.500	-.030	.000
R2F058	◺	DATA NOT AVAILABLE	.000	.000	.000	16.300	25.000	.000	

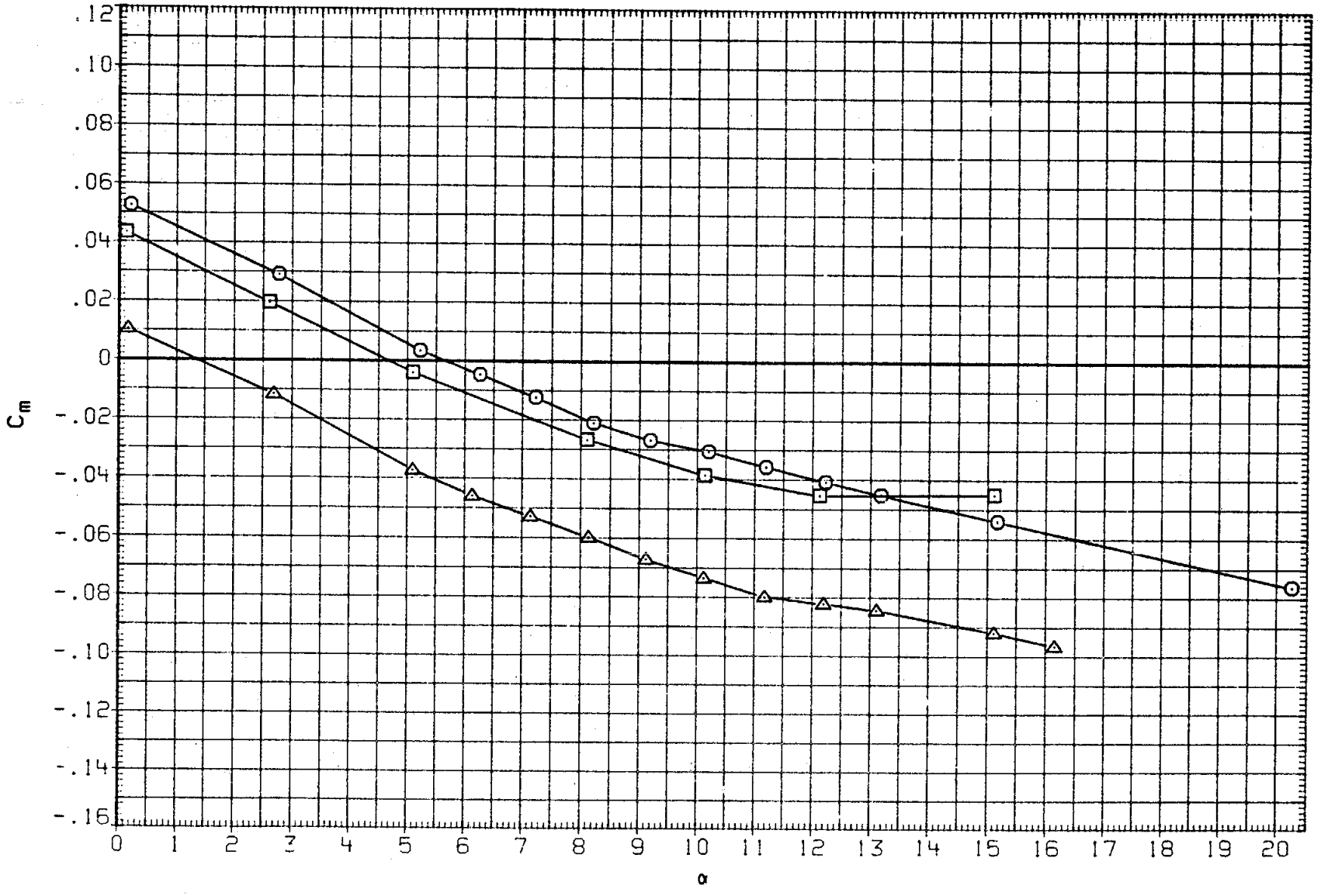

FIGURE 17. BASIC LONGITUDINAL, BODY FLAP EFFECTS

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
OKN007	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RK0012	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	16.380	25.500	-.030	.000
R2F058	◺	DATA NOT AVAILABLE	.000	.000	.000	16.300	25.000	.000	

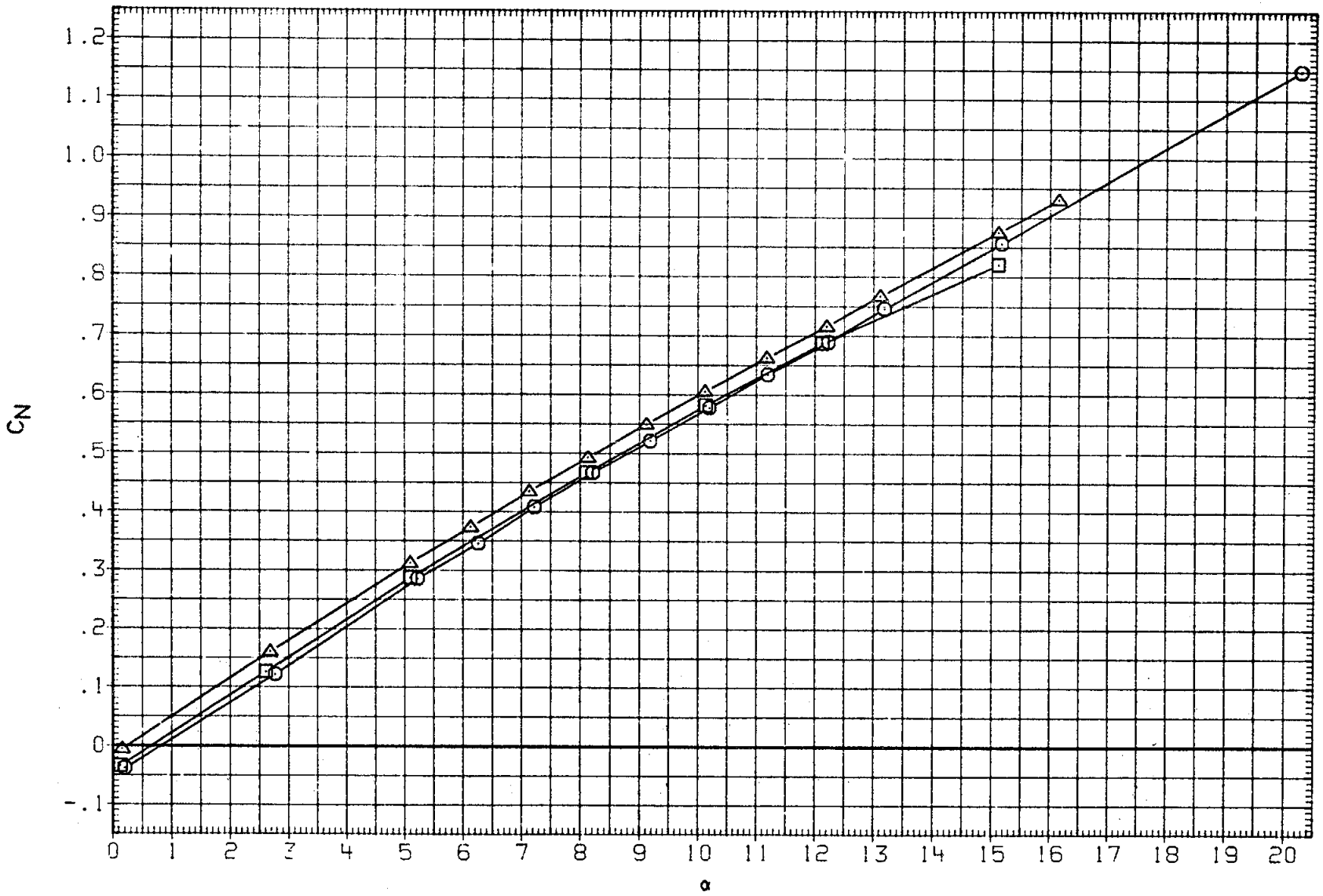

FIGURE 17. BASIC LONGITUDINAL, BODY FLAP EFFECTS

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
OKN007	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RK0012	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	16.380	25.500	-.030	.000
R2F058	◺	DATA NOT AVAILABLE	.000	.000	.000	16.300	25.000	.000	

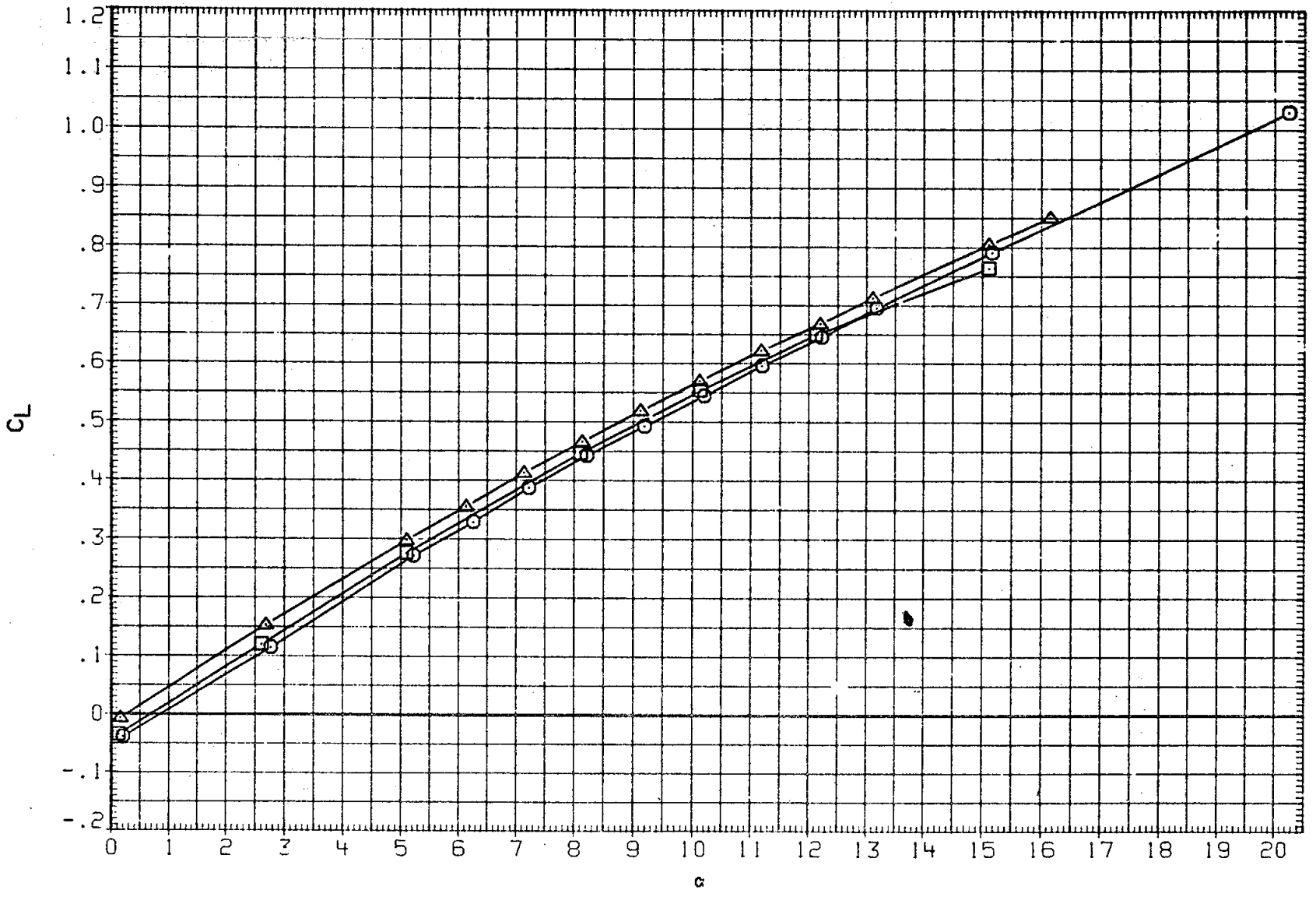

FIGURE 17. BASIC LONGITUDINAL, BODY FLAP EFFECTS

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
OKN007	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RK0012	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	16.380	25.500	-.030	.000
R2F058	◺	DATA NOT AVAILABLE	.000	.000	.000	16.300	25.000	.000	

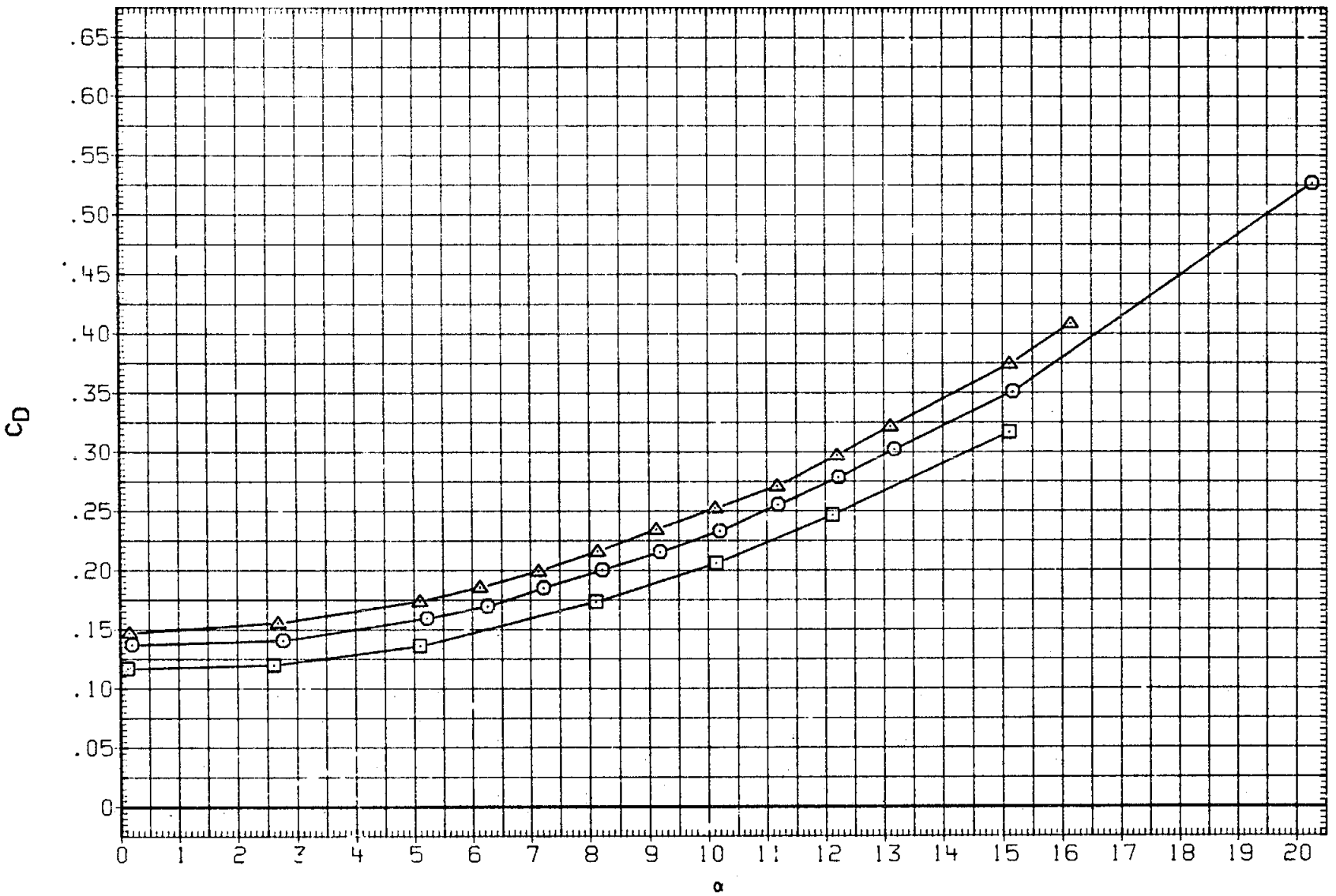

FIGURE 17. BASIC LONGITUDINAL, BODY FLAP EFFECTS

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.
OKN007	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.
R2F012	◇	DATA NOT AVAILABLE
RK0012	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F058	◺	DATA NOT AVAILABLE

BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
.000	.000	.000	.000	25.500	-.030	.000
.000	.000	.000	.000	25.000	.000	.000
.000	.000	.000	.000	25.000	.000	
.000	.000	.000	16.380	25.500	-.030	.000
.000	.000	.000	16.300	25.000	.000	

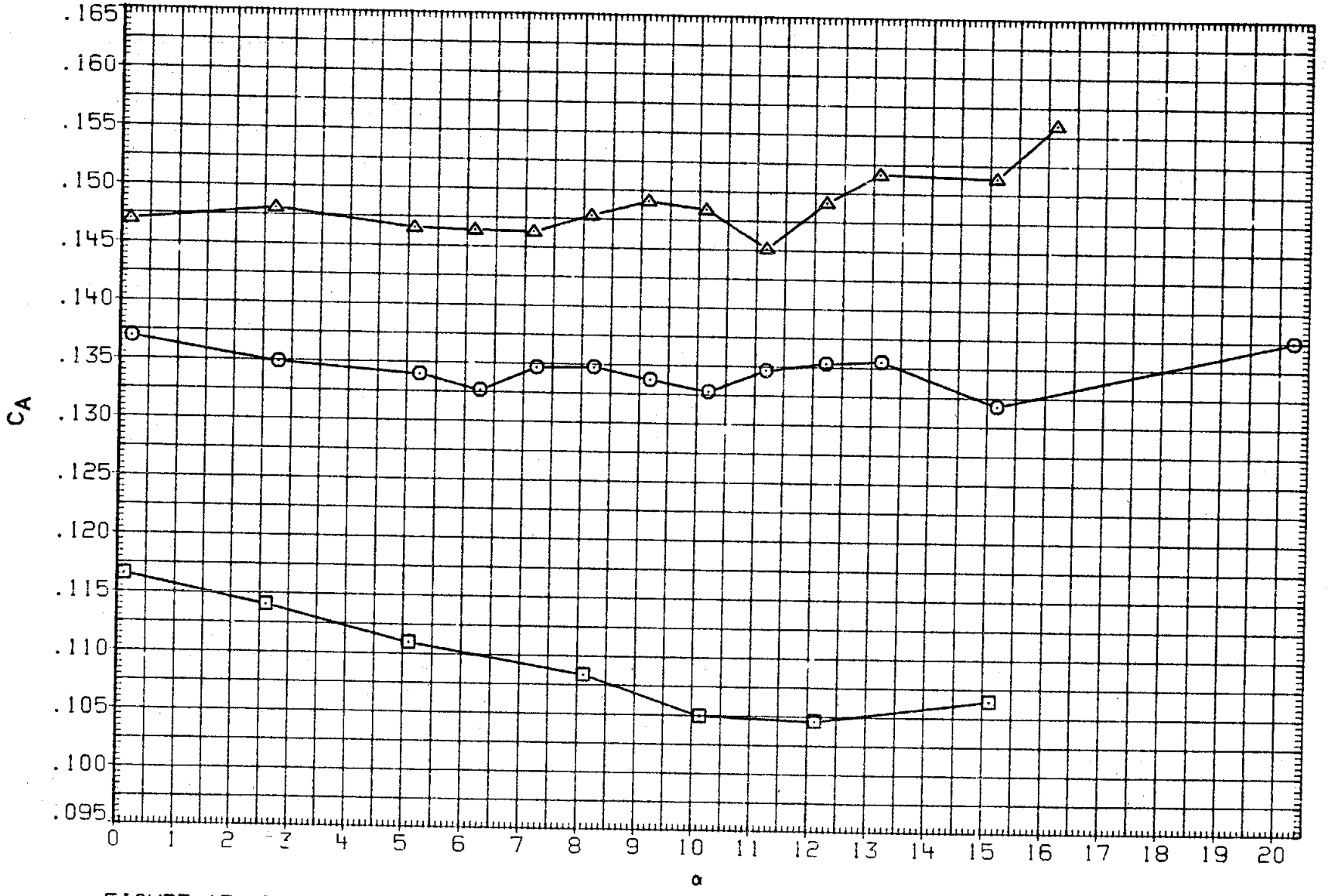

FIGURE 17. BASIC LONGITUDINAL, BODY FLAP EFFECTS

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
OKN007	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0012	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	16.380	25.500	-.030	.000
R2F058	◺	DATA NOT AVAILABLE	.000	.000	.000	16.300	25.000	.000	

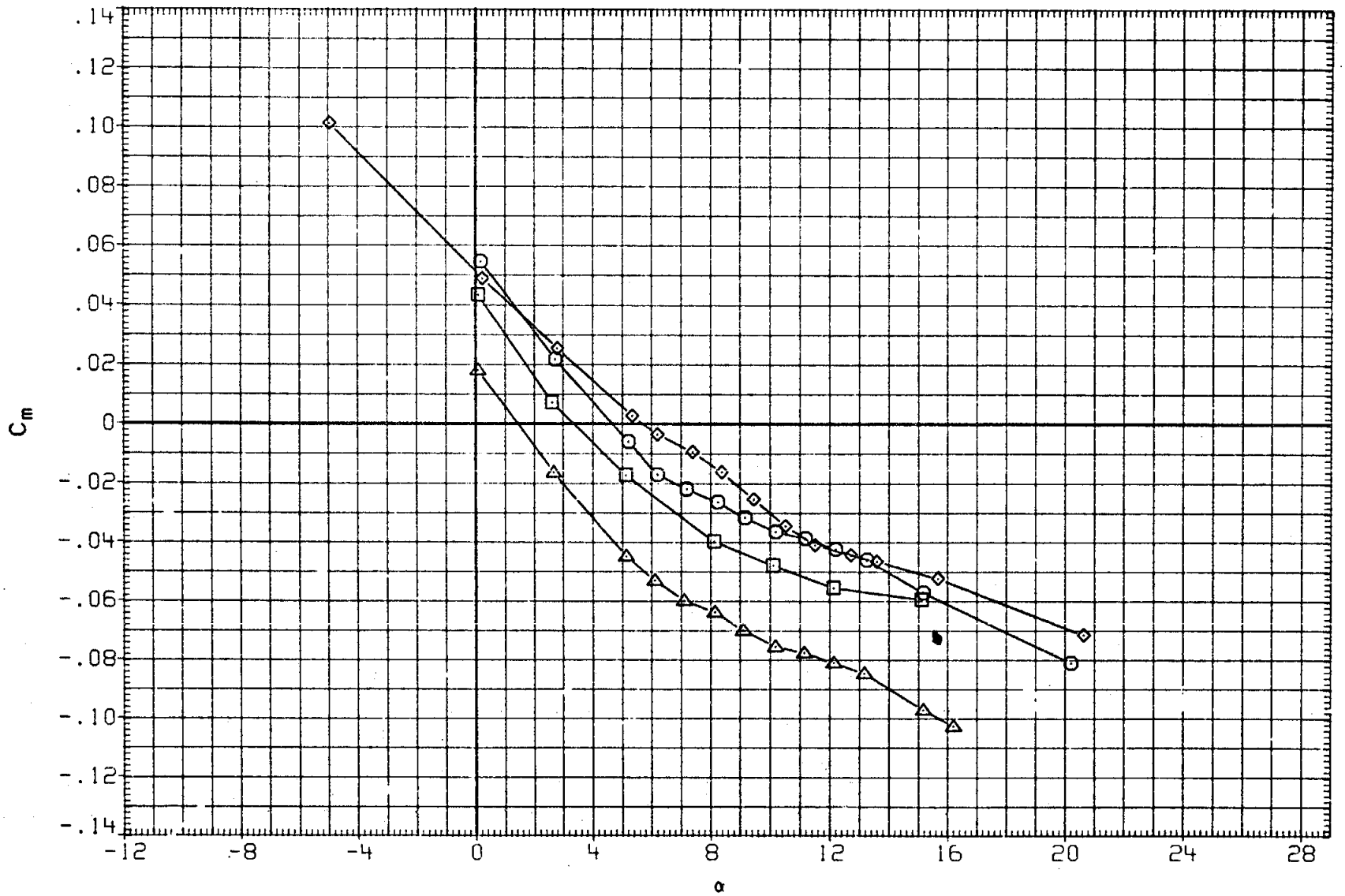

FIGURE 17. BASIC LONGITUDINAL, BODY FLAP EFFECTS

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
OKN007	□	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 11B-1-11 0A145A 01	.000	.000	.000	.000	25.000	.000	
RK0012	△	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	16.380	25.500	-.030	.000
R2F058	◺	DATA NOT AVAILABLE	.000	.000	.000	16.300	25.000	.000	

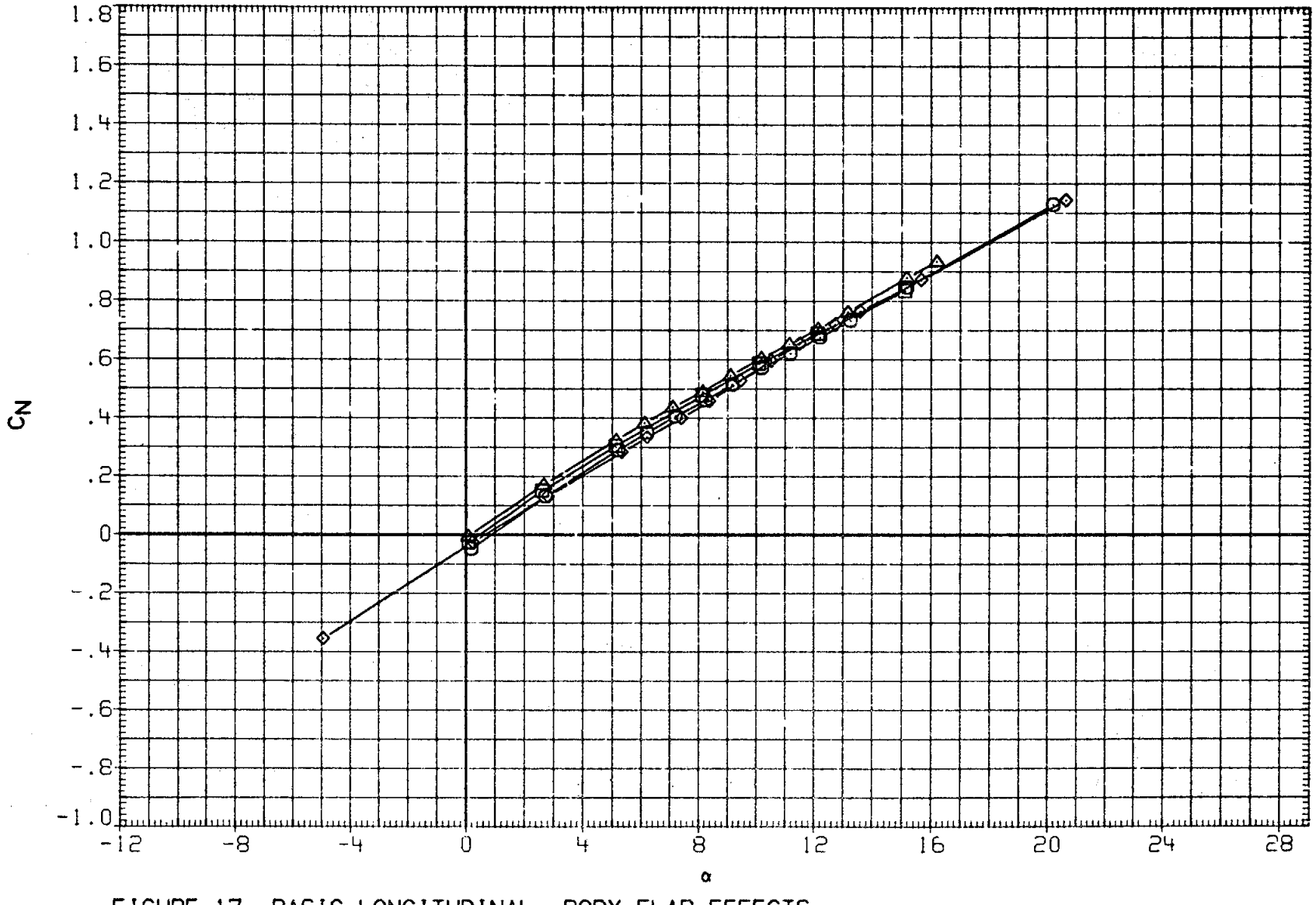

FIGURE 17. BASIC LONGITUDINAL, BODY FLAP EFFECTS

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
OKN007	□	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	25.000	.000	
RK0012	△	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	16.380	25.500	-.030	.000
R2F058	◺	DATA NOT AVAILABLE	.000	.000	.000	16.300	25.000	.000	

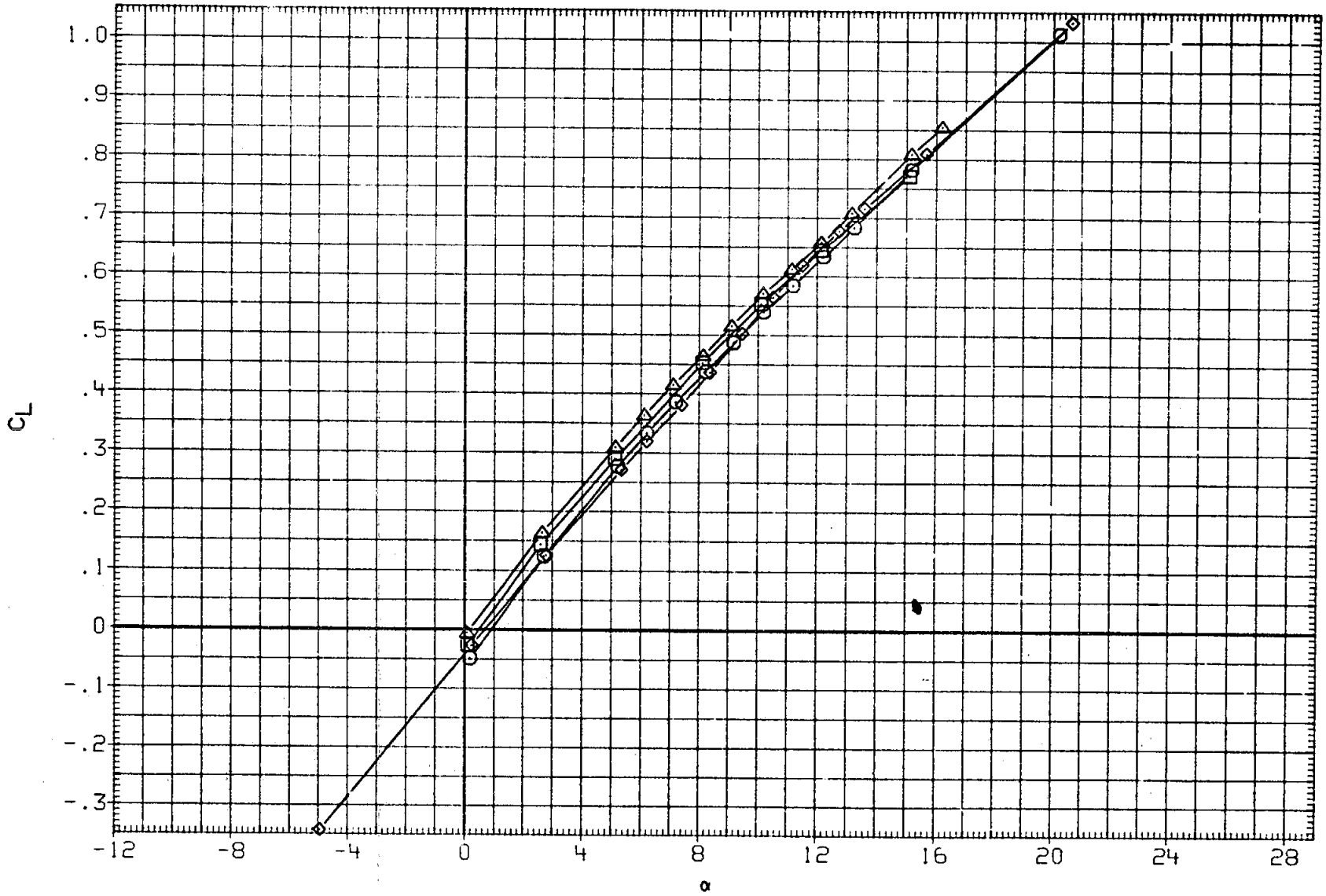

FIGURE 17. BASIC LONGITUDINAL, BODY FLAP EFFECTS

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
OKN007	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0012	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	16.380	25.500	-.030	.000
R2F058	◺	DATA NOT AVAILABLE	.000	.000	.000	16.300	25.000	.000	

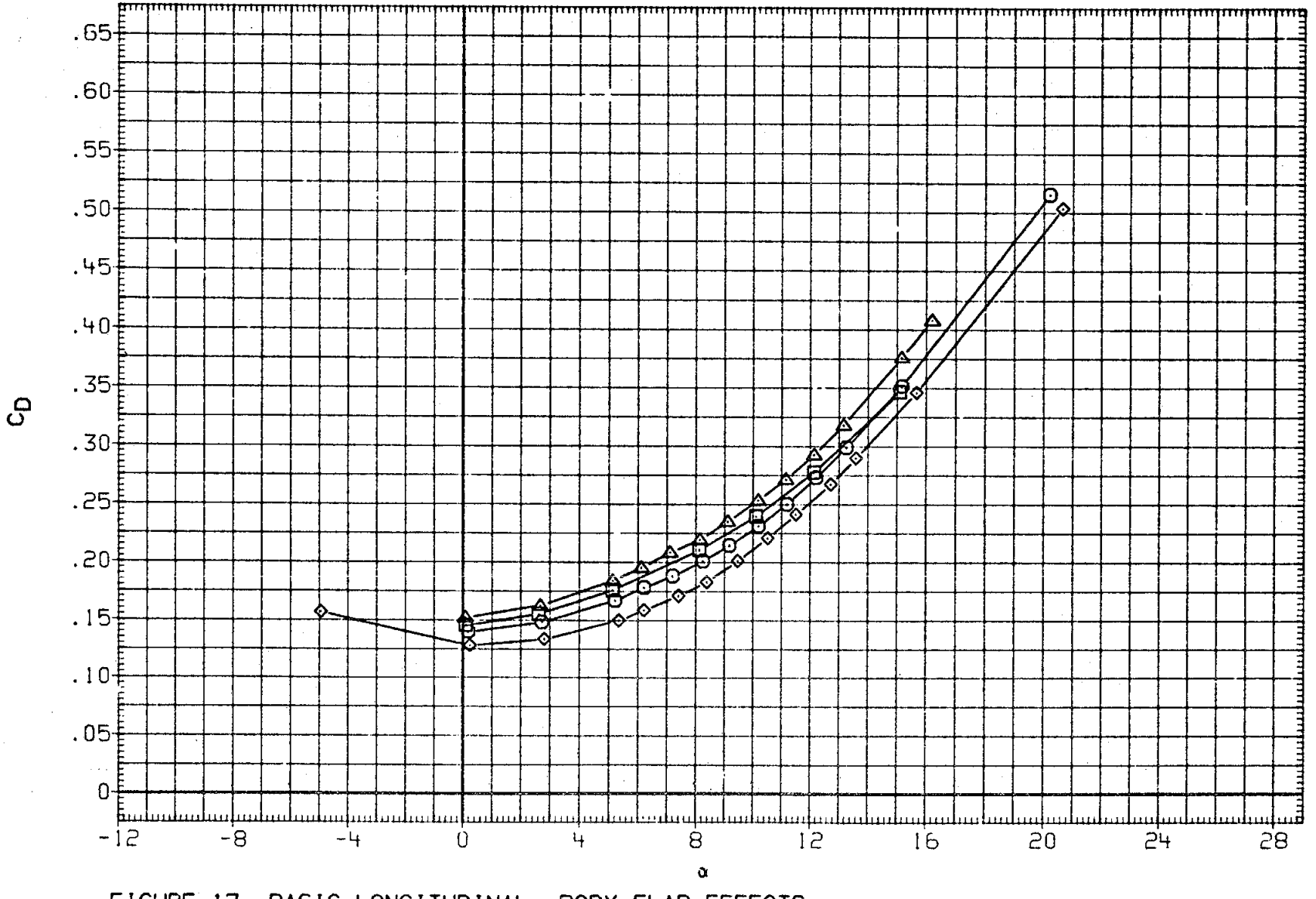

FIGURE 17. BASIC LONGITUDINAL, BODY FLAP EFFECTS

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
OKN007	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0012	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	15.380	25.500	-.030	.000
R2F058	◺	DATA NOT AVAILABLE	.000	.000	.000	16.300	25.000	.000	

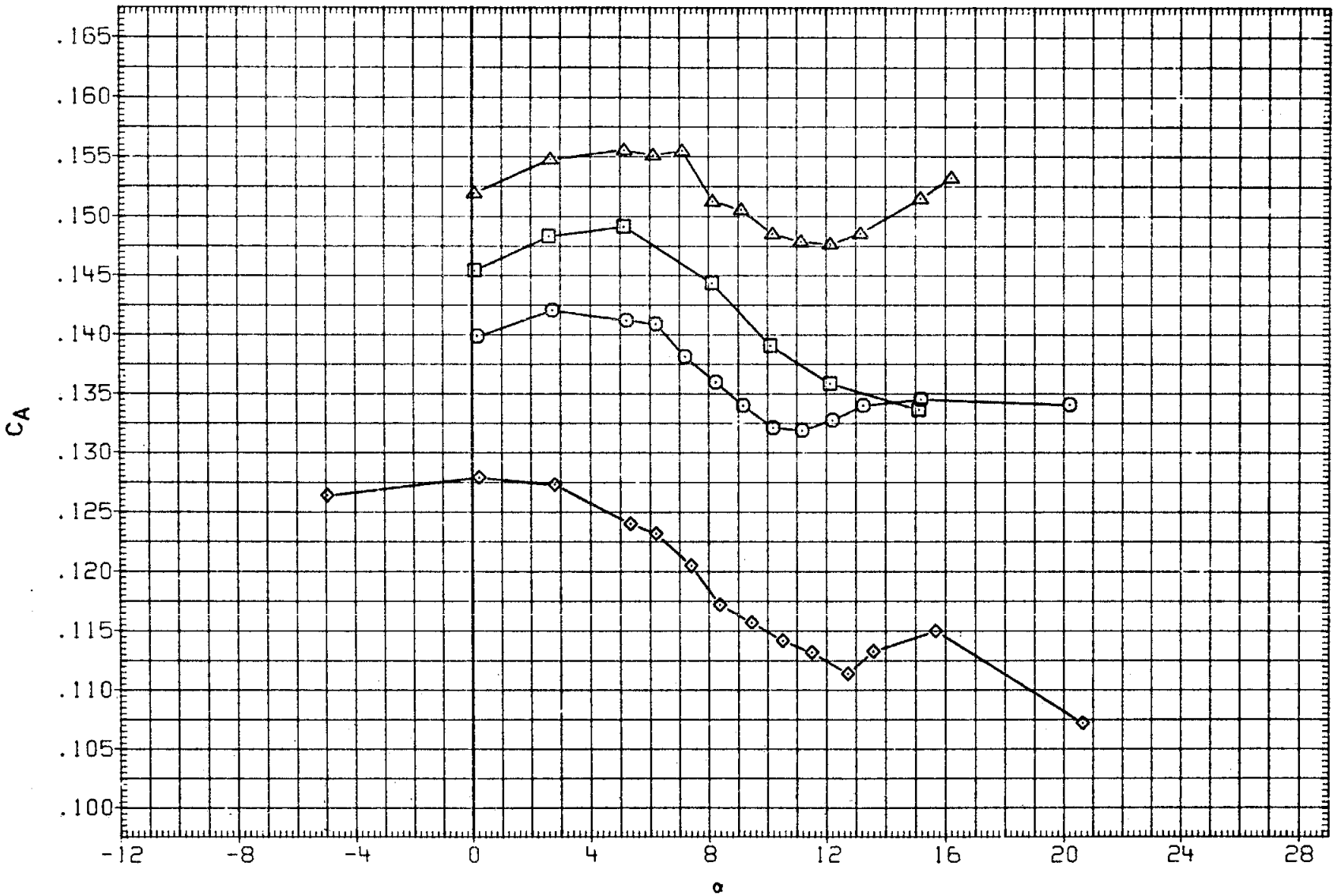

FIGURE 17. BASIC LONGITUDINAL, BODY FLAP EFFECTS

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
OKN007	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0012	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	16.380	25.500	-.030	.000
R2F058	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	16.300	25.000	.000	

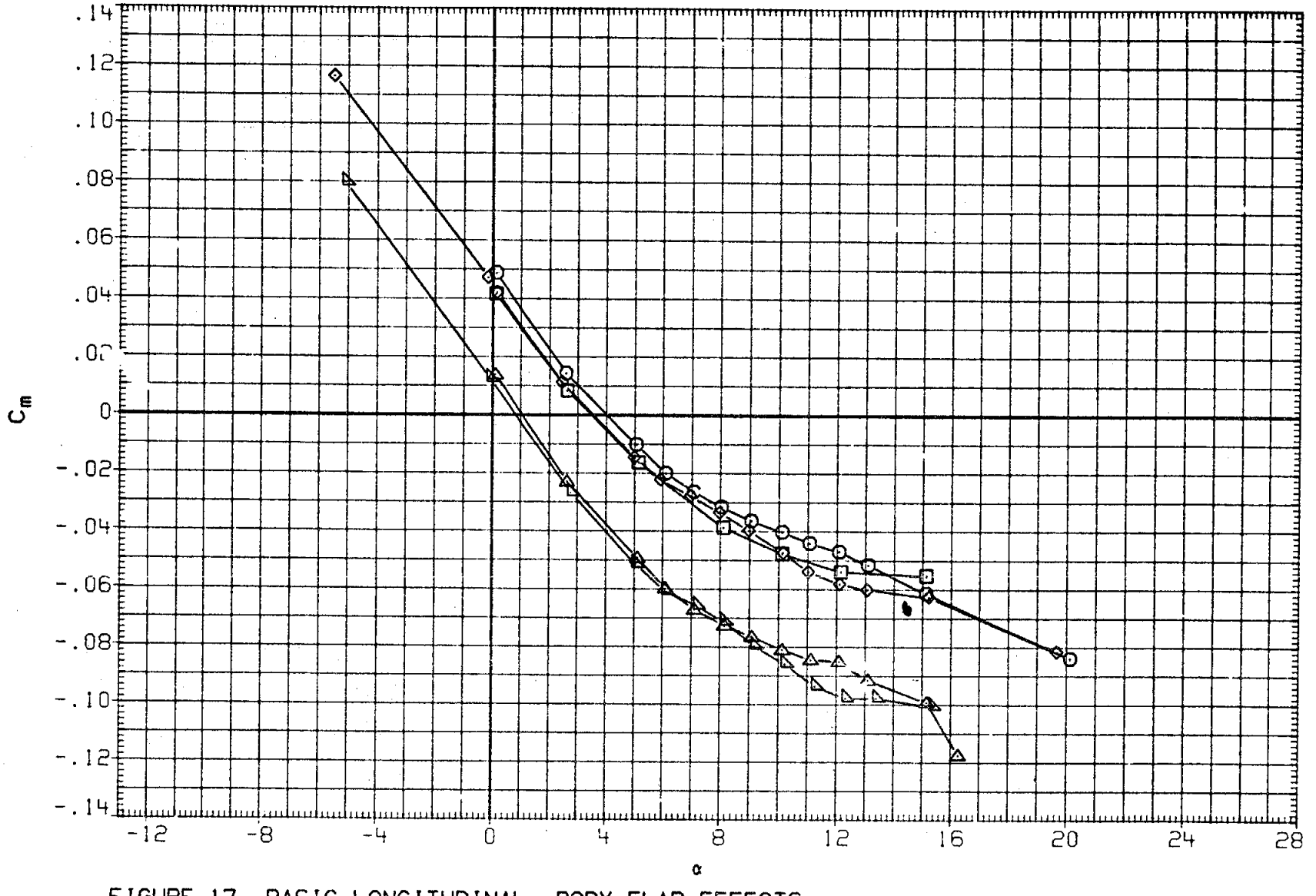

FIGURE 17. BASIC LONGITUDINAL, BODY FLAP EFFECTS

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
OKN007	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0012	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	16.380	25.500	-.030	.000
R2F058	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	16.300	25.000	.000	

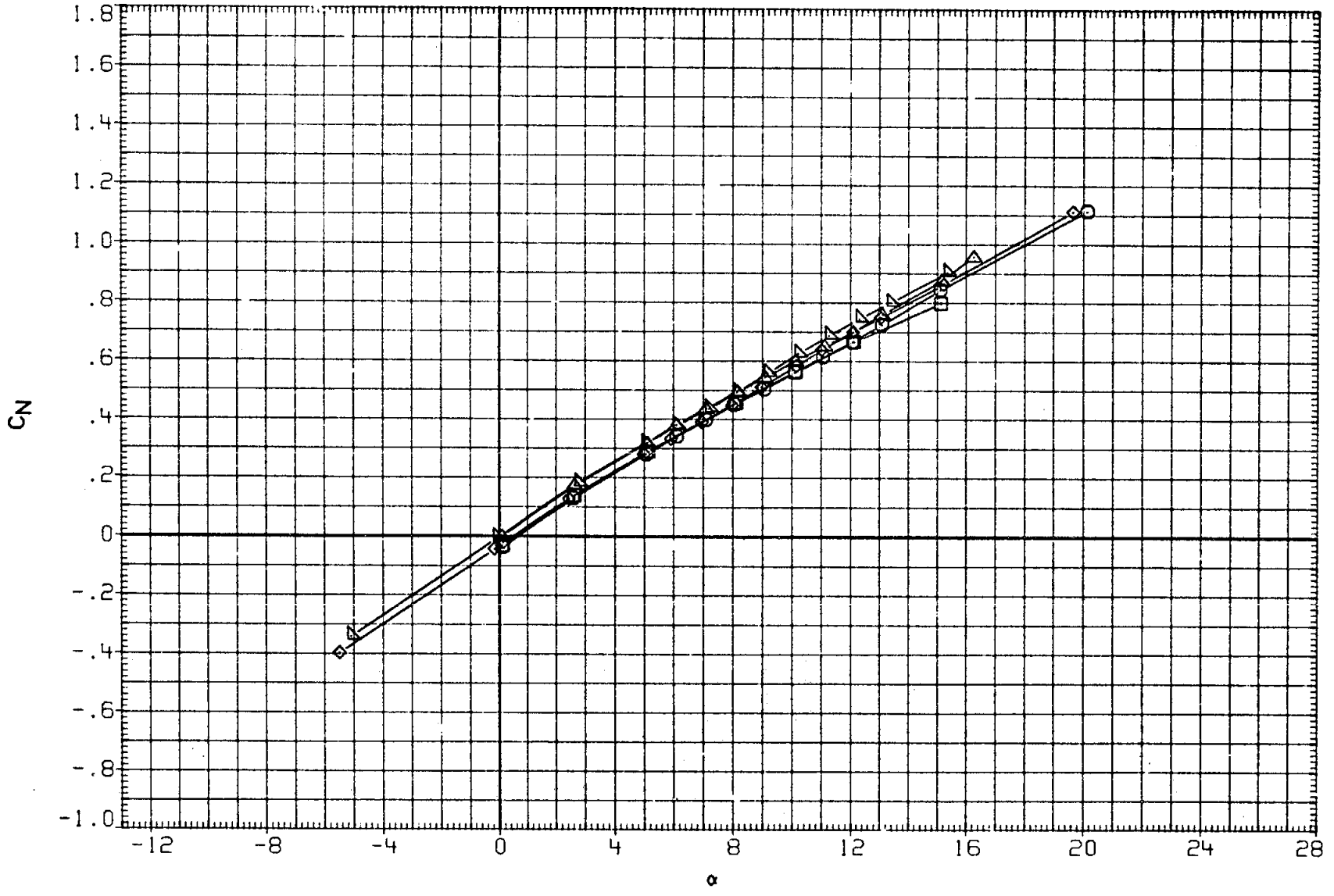

FIGURE 17. BASIC LONGITUDINAL, BODY FLAP EFFECTS

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
OKN007	□	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	25.000	.000	
RK0012	△	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	16.380	25.500	-.030	.000
R2F058	◺	AMES 118-1-11 0A145A 01	.000	.000	.000	16.300	25.000	.000	

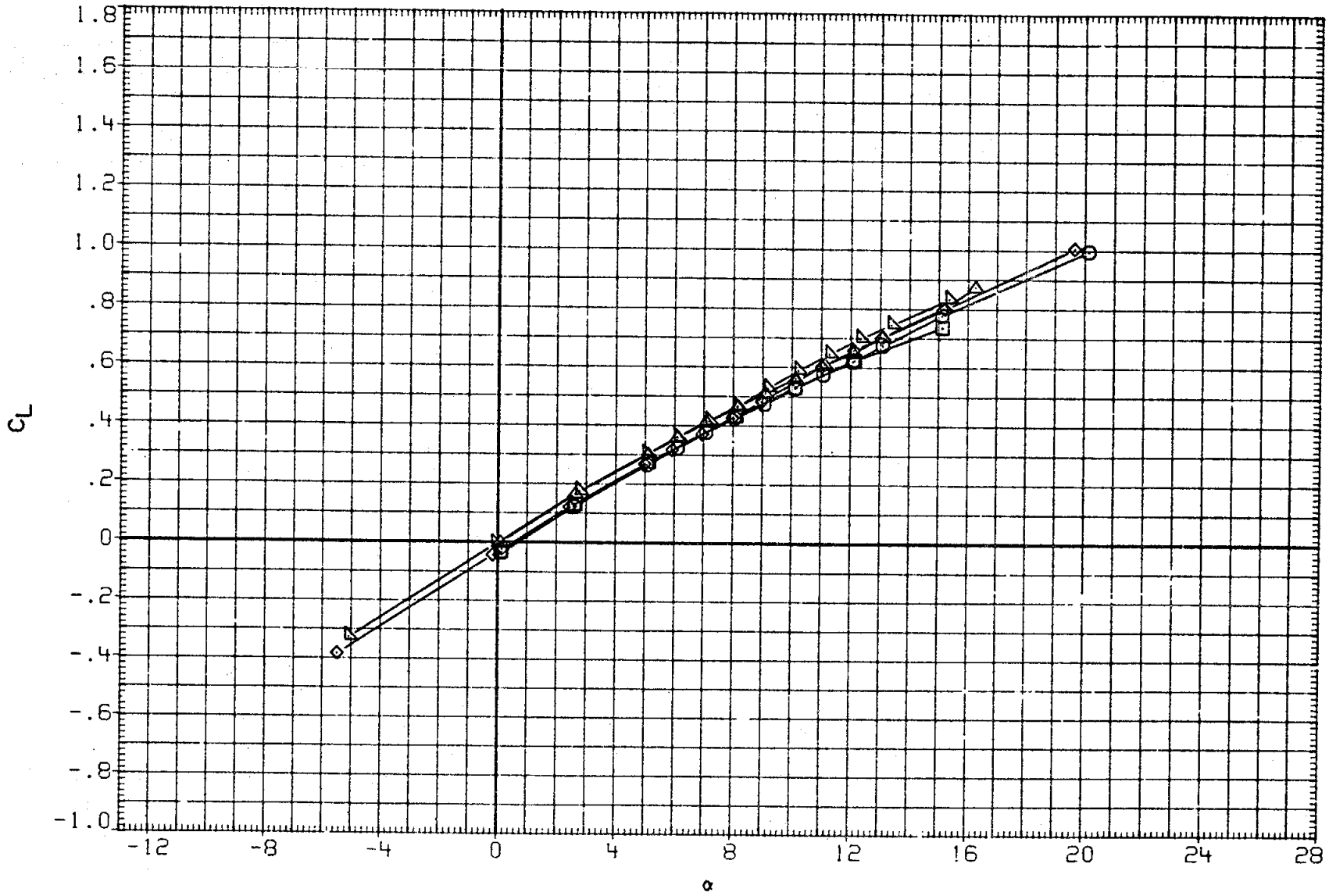

FIGURE 17. BASIC LONGITUDINAL, BODY FLAP EFFECTS

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
OKN007	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0012	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	16.380	25.500	-.030	.000
R2F058	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	16.300	25.000	.000	

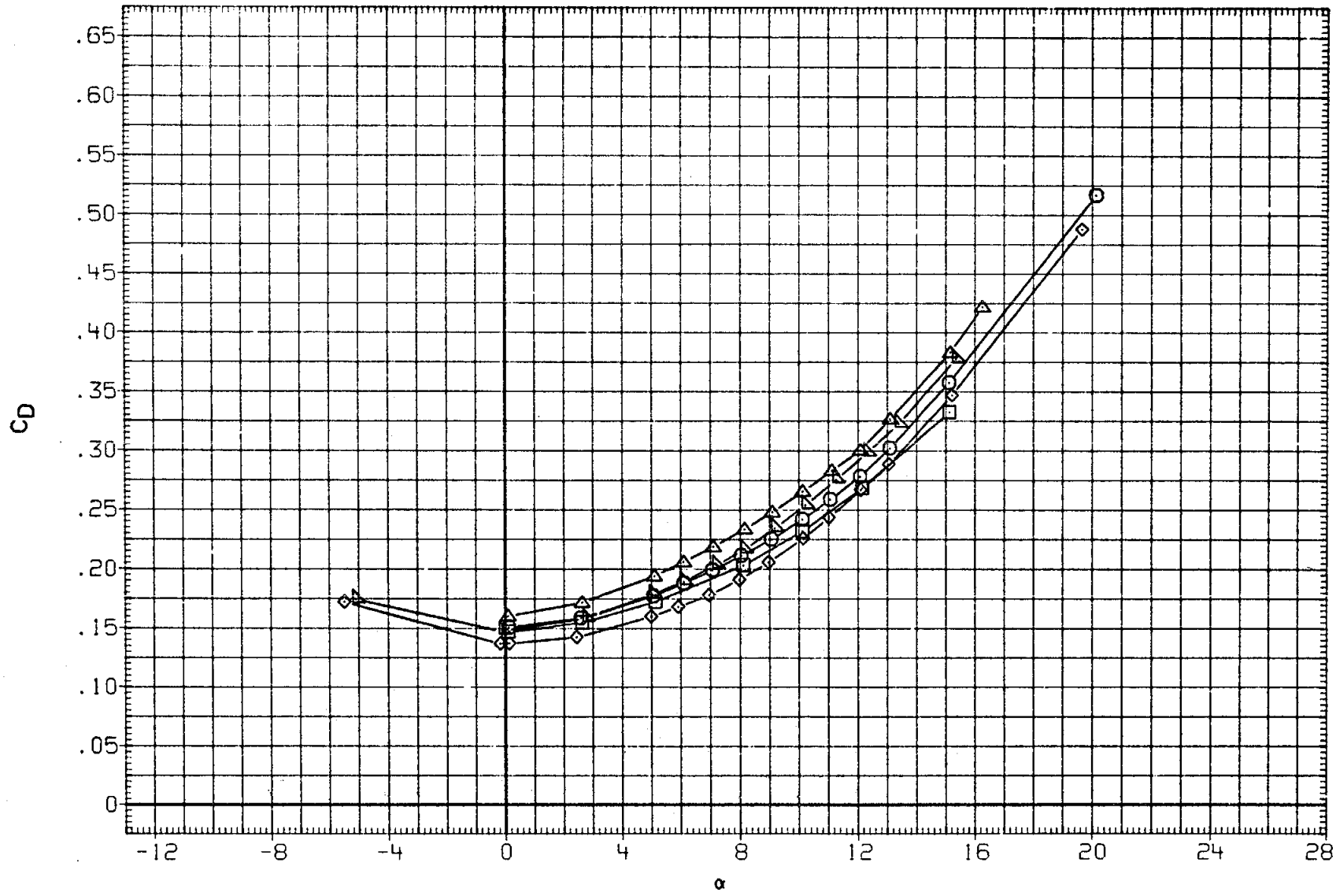

FIGURE 17. BASIC LONGITUDINAL, BODY FLAP EFFECTS

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
OKN007	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0012	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	16.380	25.500	-.030	.000
R2F058	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	16.300	25.000	.000	

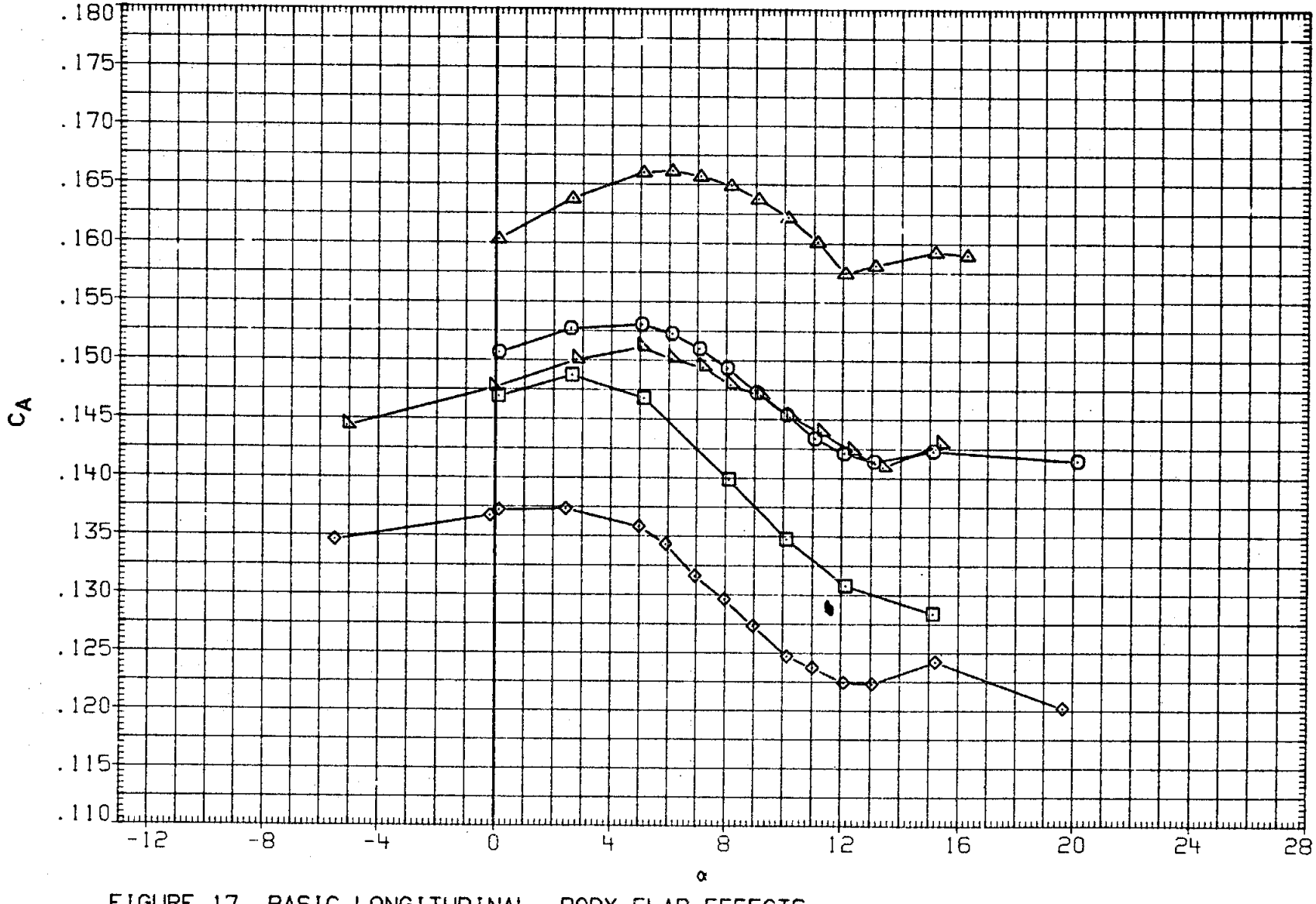

FIGURE 17. BASIC LONGITUDINAL, BODY FLAP EFFECTS

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
OKN007	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0012	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	16.380	25.500	-.030	.000
R2F058	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	16.300	25.000	.000	

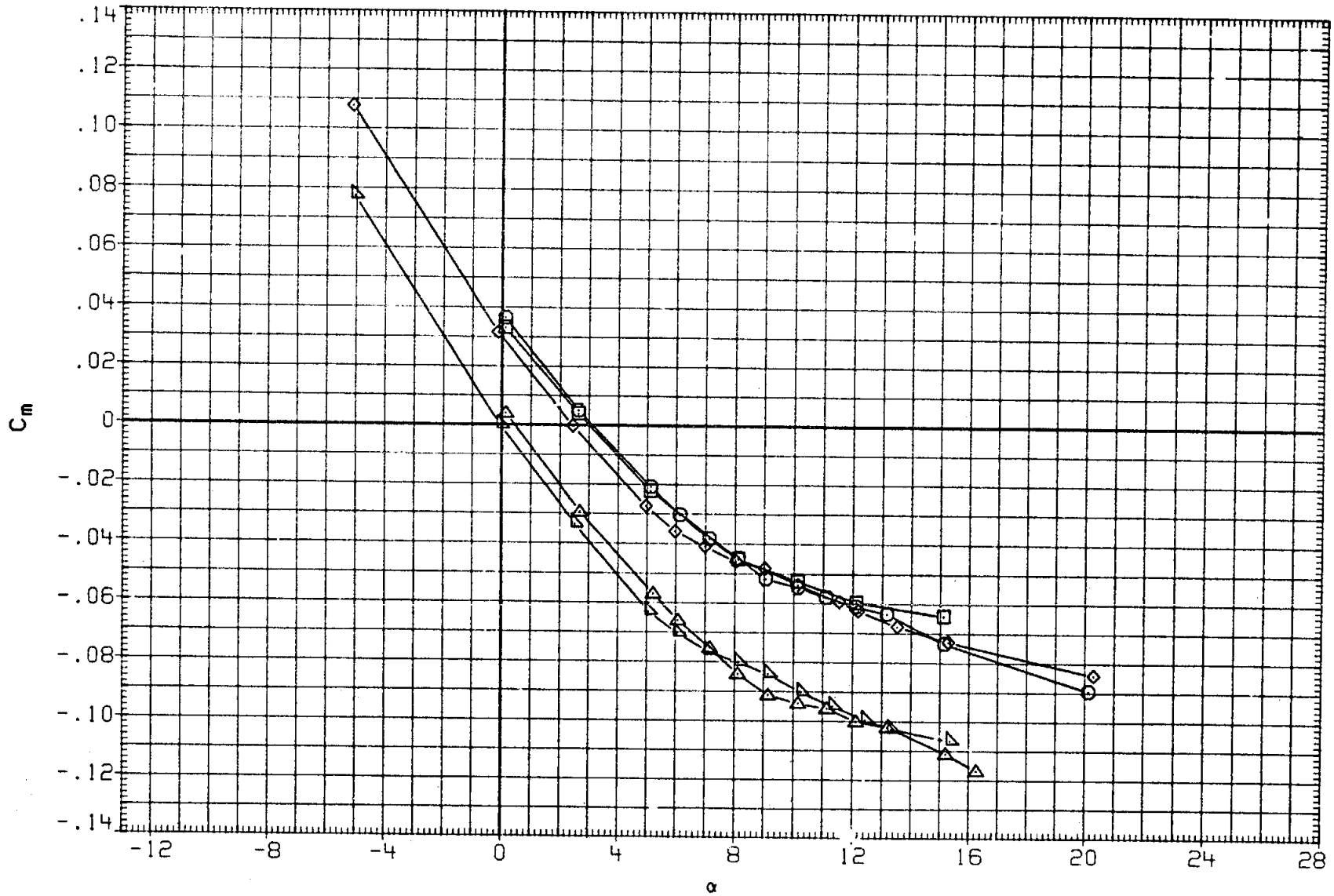

FIGURE 17. BASIC LONGITUDINAL, BODY FLAP EFFECTS

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
OKN007	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0012	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	16.380	25.500	-.030	.000
R2F058	◁	AMES 118-1-11 OA145A 01	.000	.000	.000	16.300	25.000	.000	

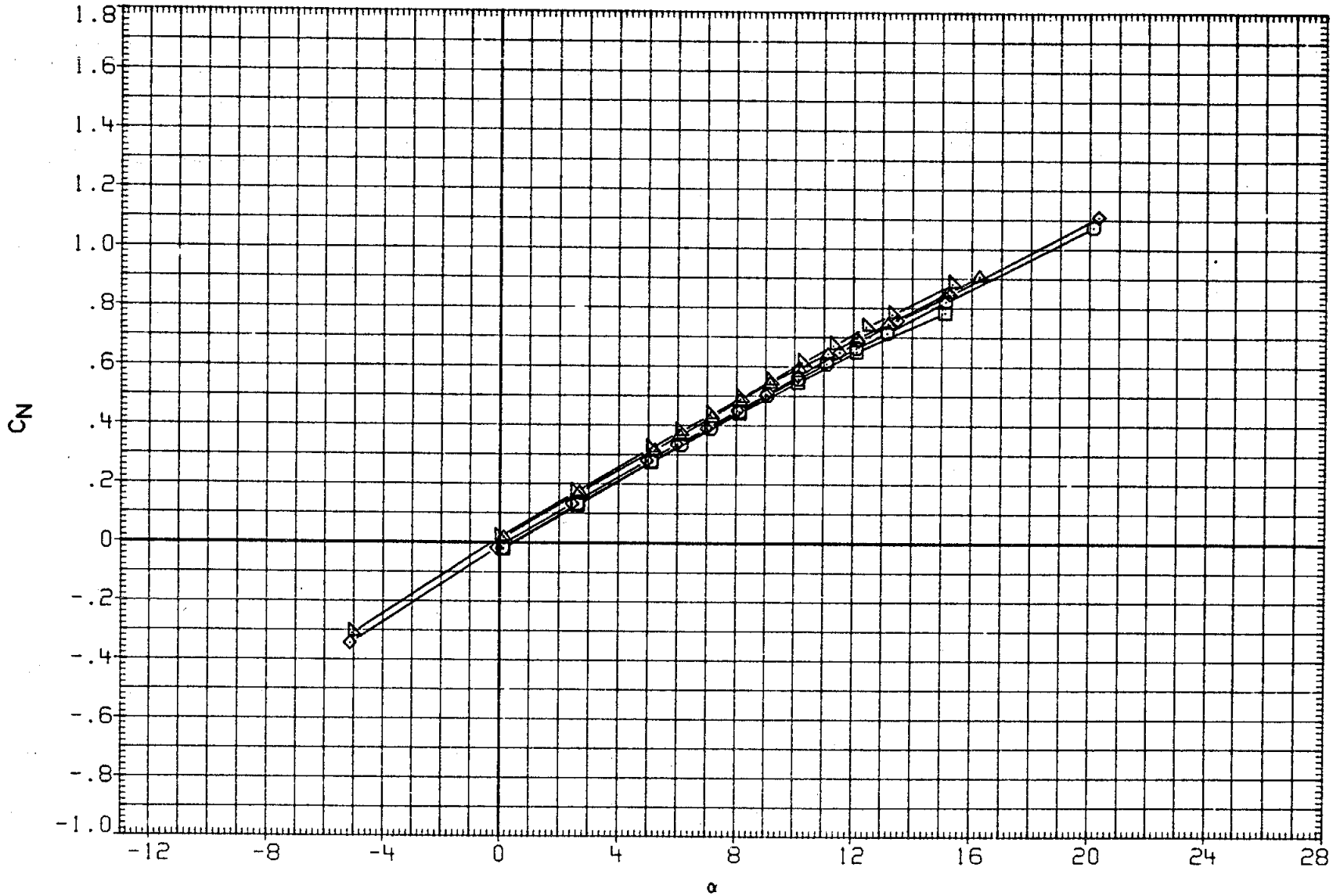

FIGURE 17. BASIC LONGITUDINAL, BODY FLAP EFFECTS

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
OKN007	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0012	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	16.380	25.500	-.030	.000
R2F058	◁	AMES 118-1-11 OA145A 01	.000	.000	.000	16.300	25.000	.000	

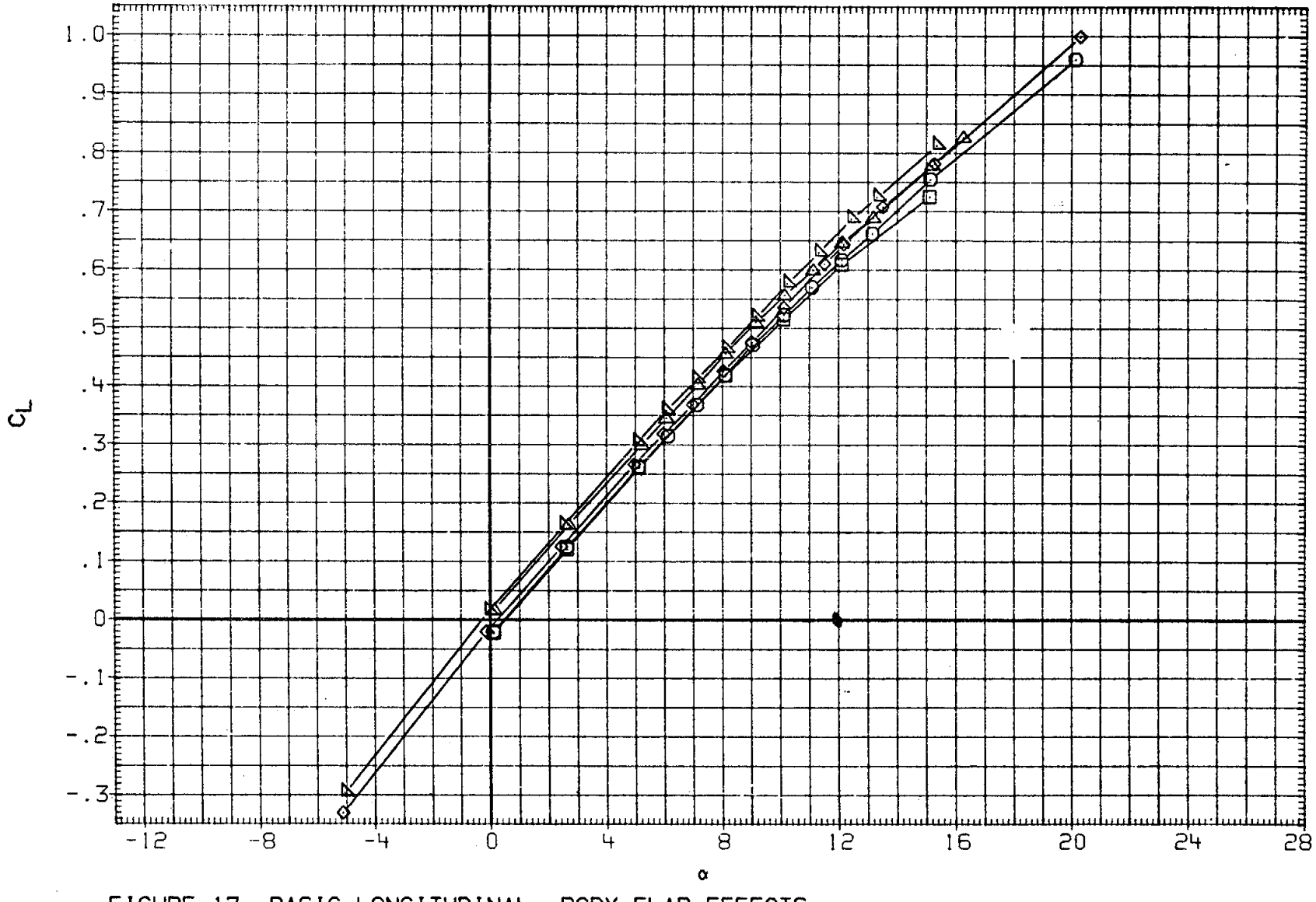

FIGURE 17. BASIC LONGITUDINAL, BODY FLAP EFFECTS

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
OKN007	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0012	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	16.380	25.500	-.030	.000
R2F058	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	16.300	25.000	.000	

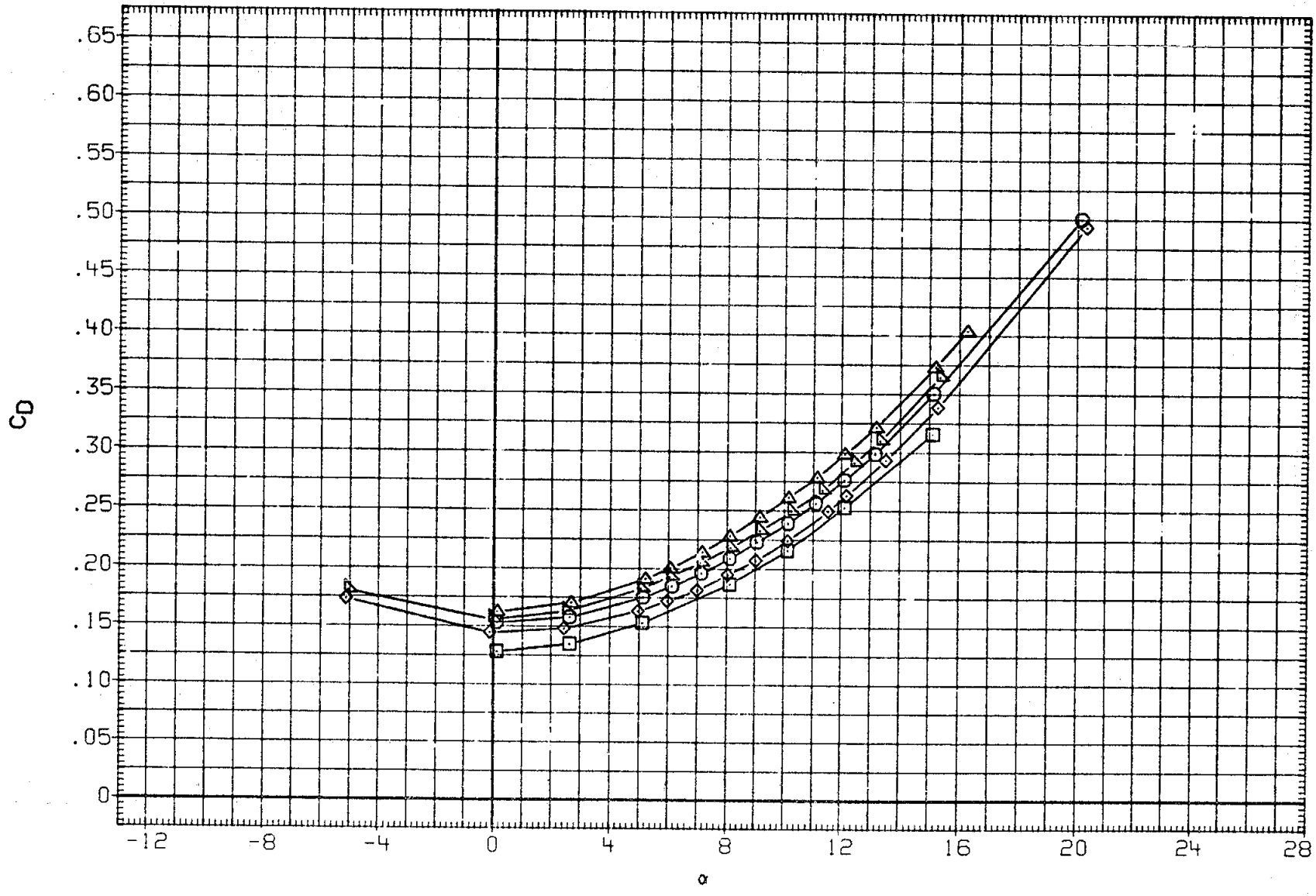

FIGURE 17. BASIC LONGITUDINAL, BODY FLAP EFFECTS

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
OKN007	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0012	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	16.380	25.500	-.030	.000
R2F058	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	16.300	25.000	.000	

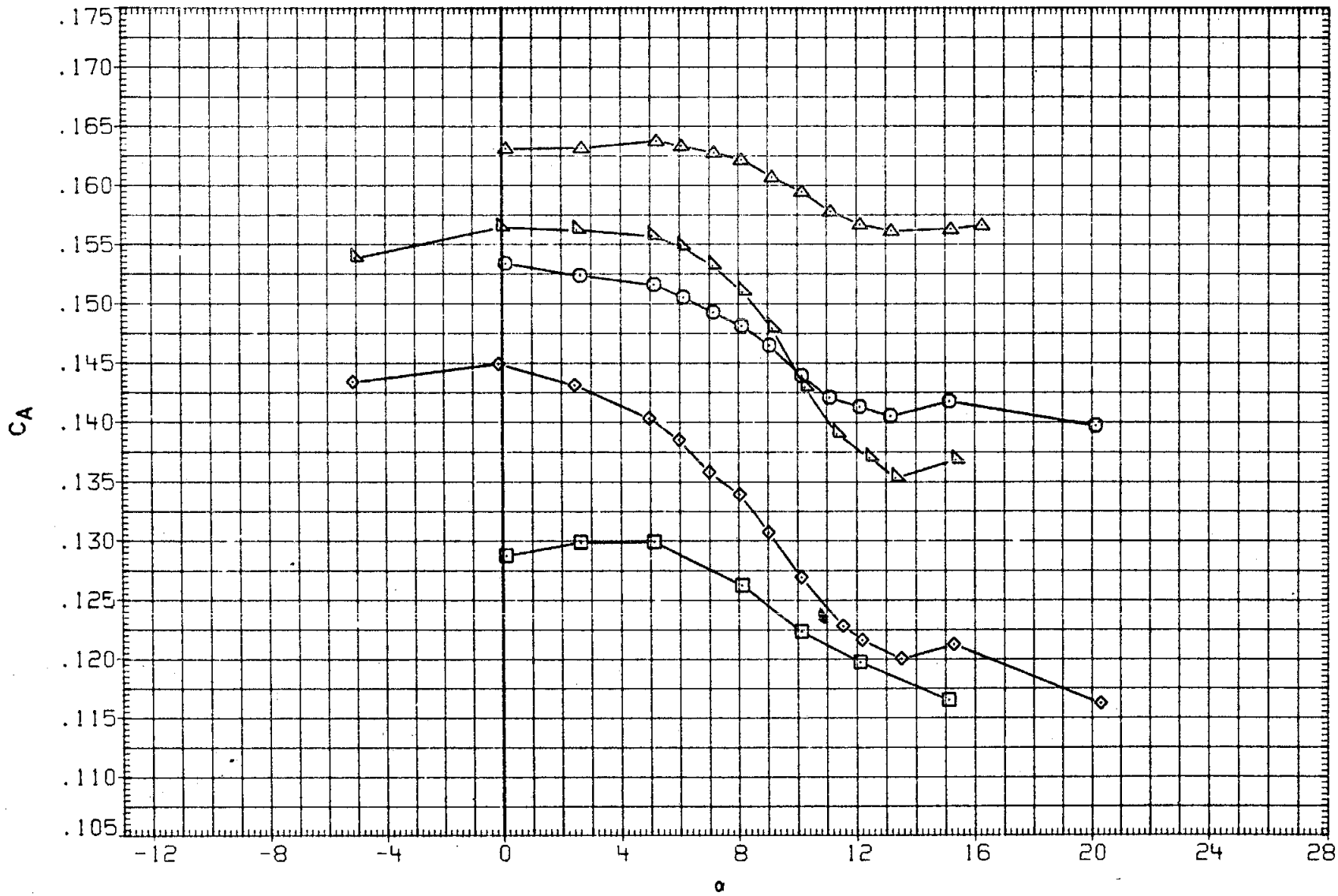

FIGURE 17. BASIC LONGITUDINAL, BODY FLAP EFFECTS

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
OKN007	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0012	△	DATA NOT AVAILABLE	.000	.000	.000	16.380	25.500	-.030	.000
R2F058	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	16.300	25.000	.000	

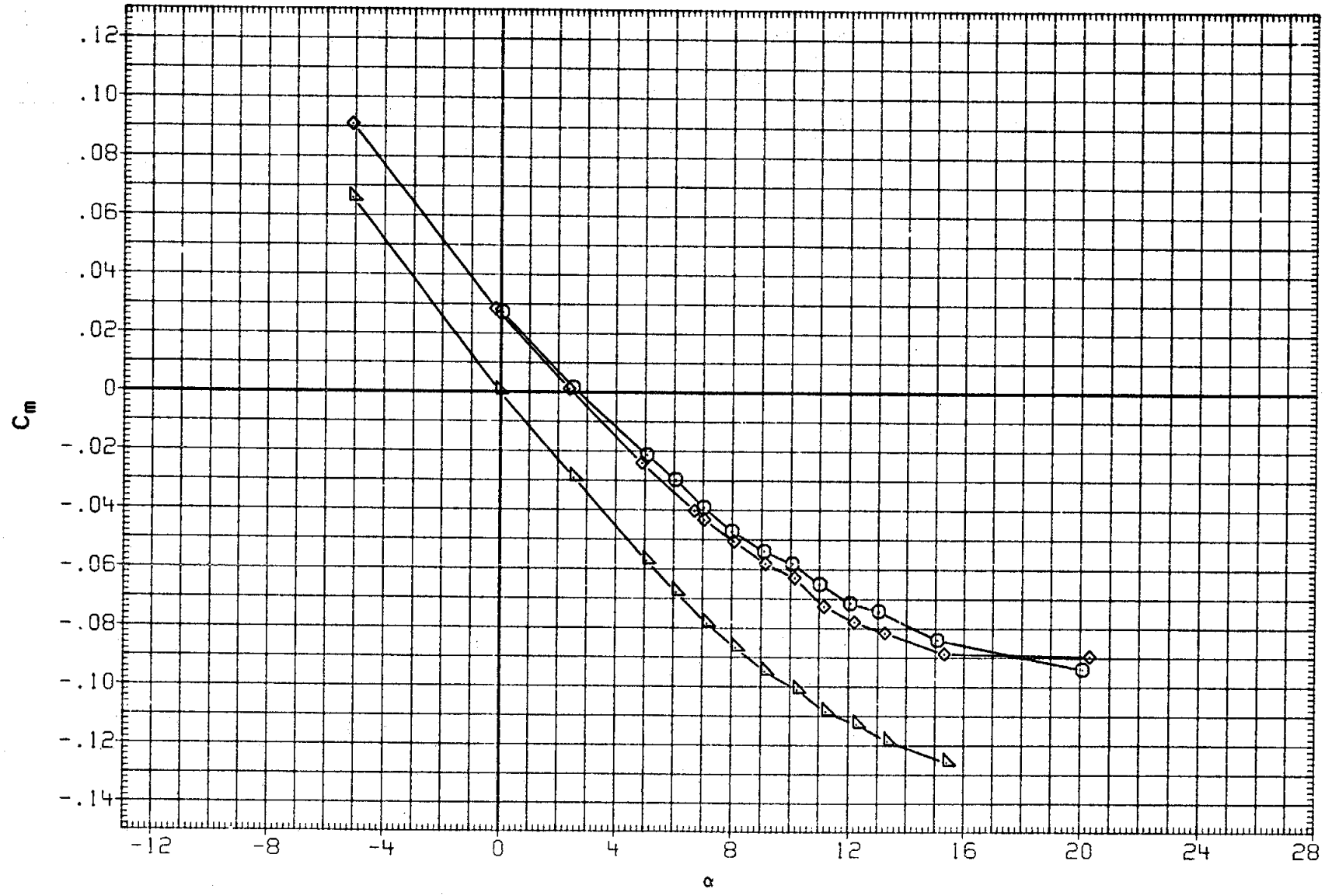

FIGURE 17. BASIC LONGITUDINAL, BODY FLAP EFFECTS

(I)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
OKN007	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0012	△	DATA NOT AVAILABLE	.000	.000	.000	16.380	25.500	-.030	.000
R2F058	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	16.300	25.000	.000	

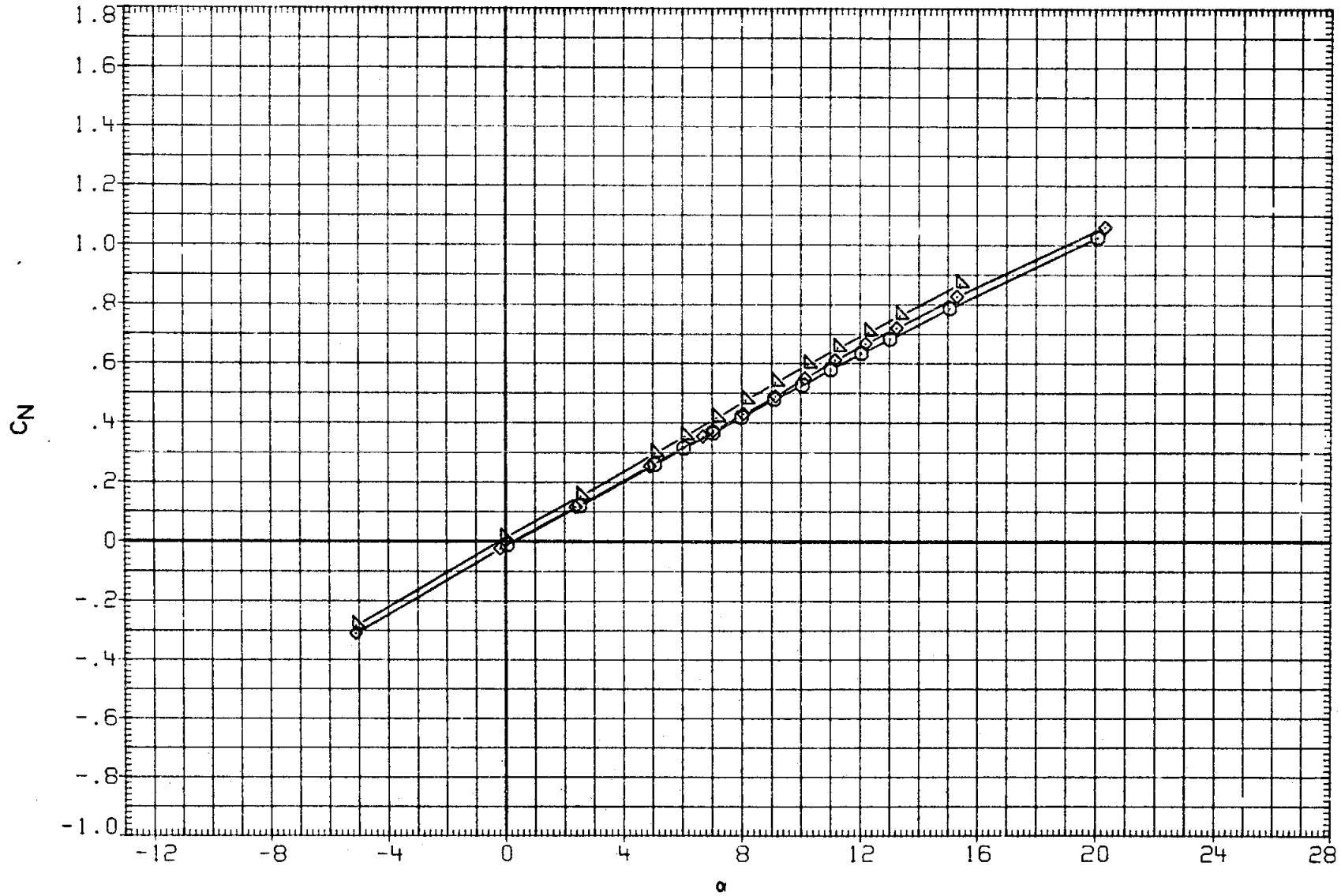

FIGURE 17. BASIC LONGITUDINAL, BODY FLAP EFFECTS

(I)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
OKN007	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0012	△	DATA NOT AVAILABLE	.000	.000	.000	16.380	25.500	-.030	.000
R2F058	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	16.300	25.000	.000	

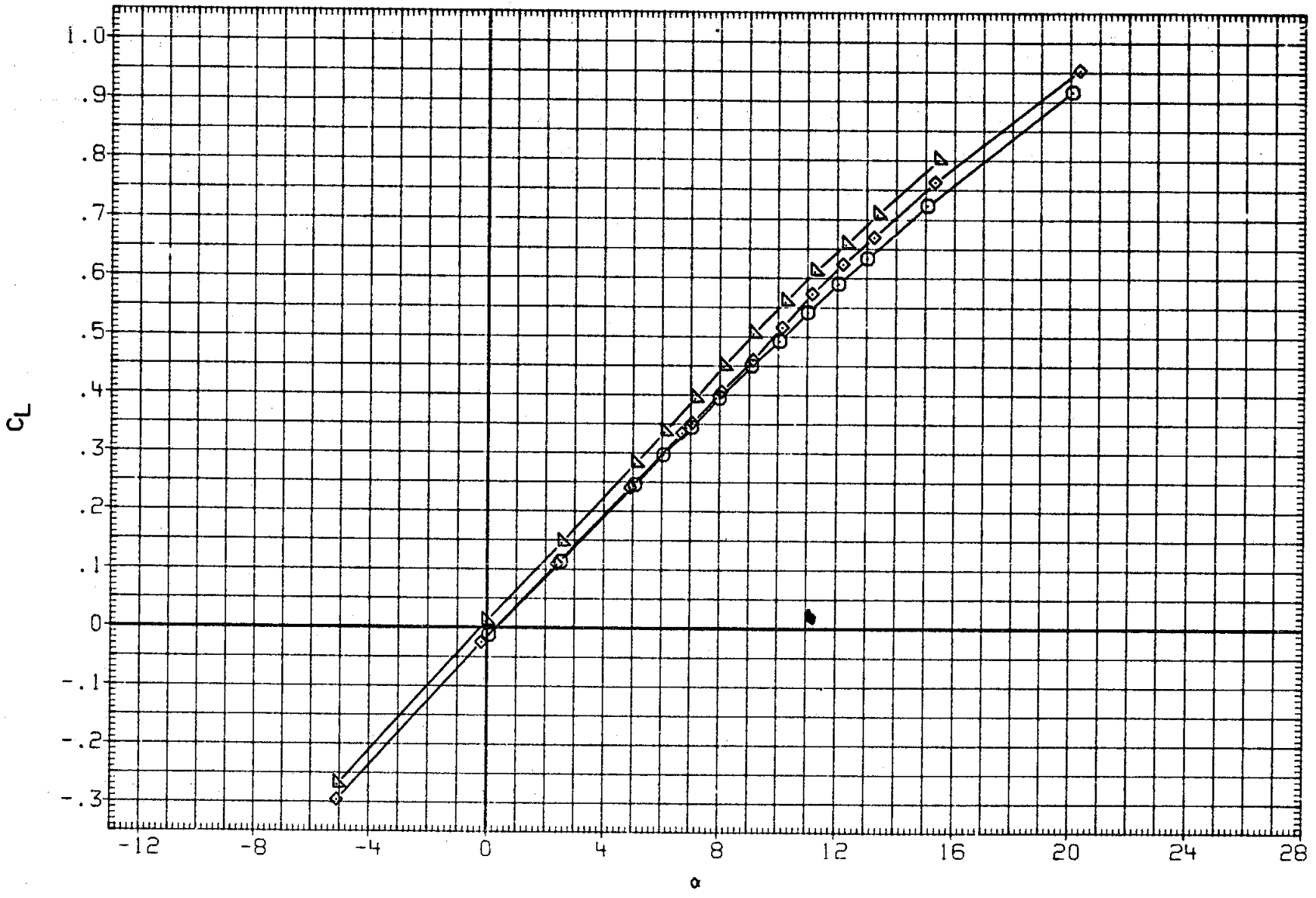

FIGURE 17. BASIC LONGITUDINAL, BODY FLAP EFFECTS

(I)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
OKN007	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0012	△	DATA NOT AVAILABLE	.000	.000	.000	16.380	25.500	-.030	.000
R2F058	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	16.300	25.000	.000	

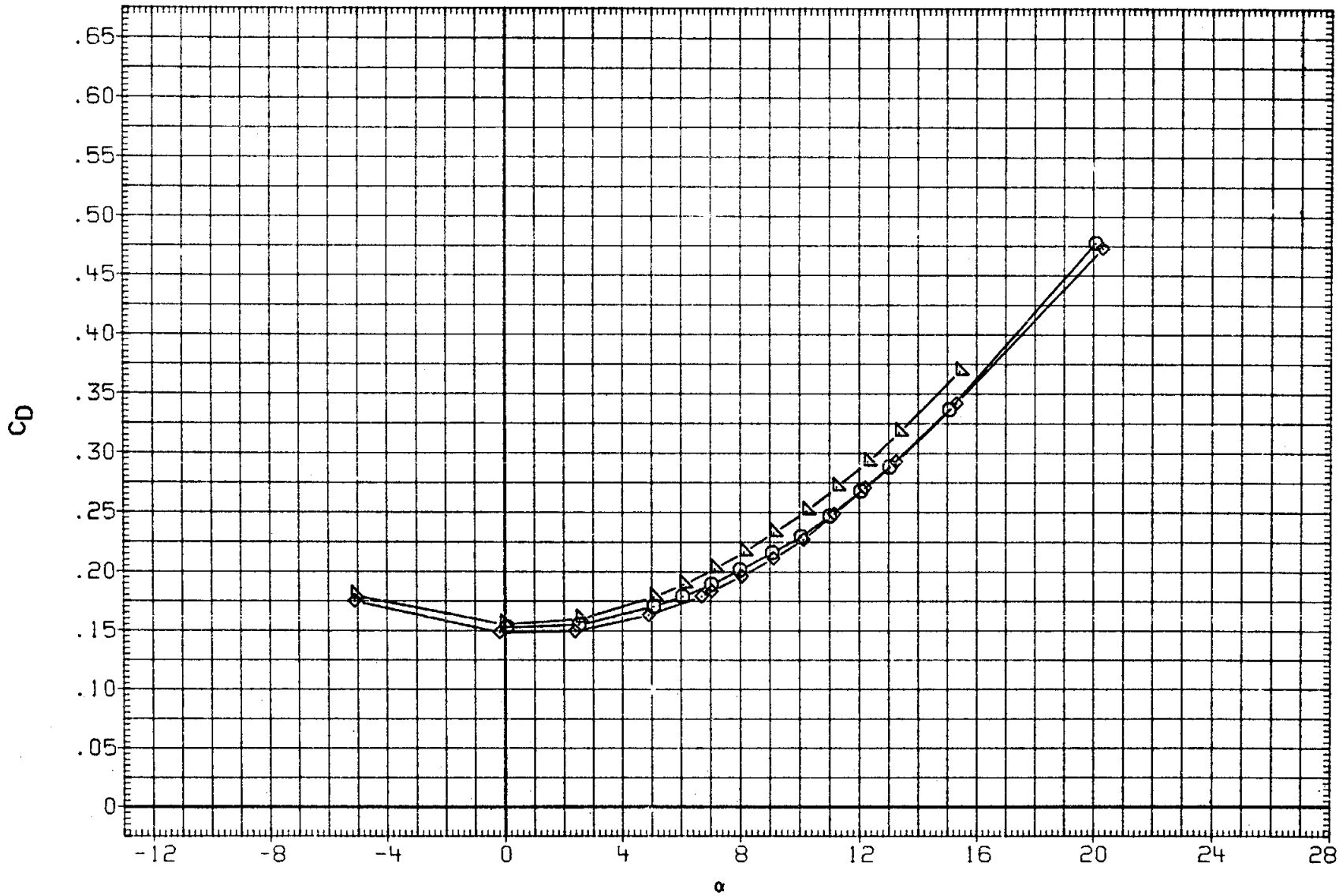

FIGURE 17. BASIC LONGITUDINAL, BODY FLAP EFFECTS

(I)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
OKN007	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0012	△	DATA NOT AVAILABLE	.000	.000	.000	16.380	25.500	-.030	.000
R2F058	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	16.300	25.000	.000	

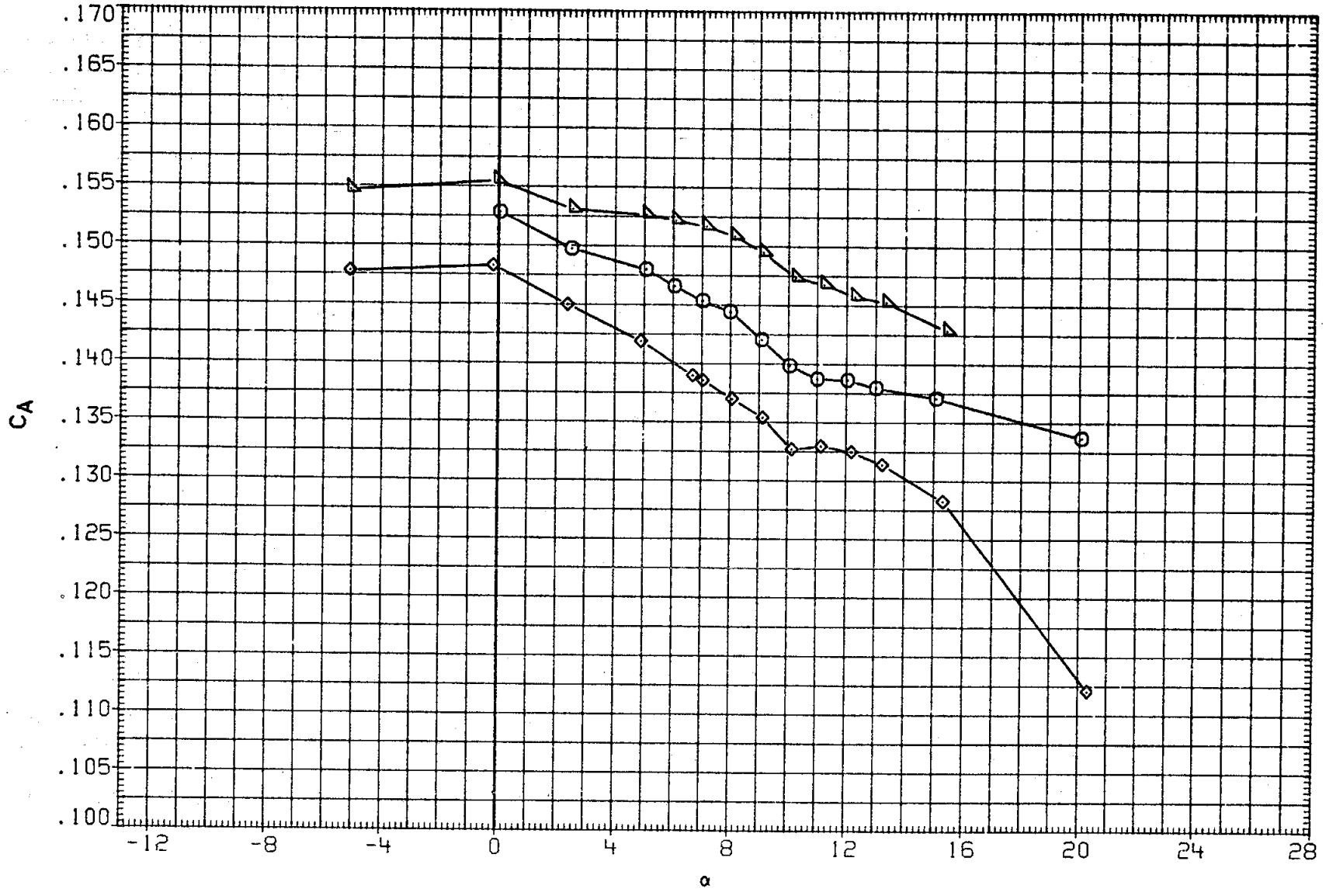

FIGURE 17. BASIC LONGITUDINAL, BODY FLAP EFFECTS

(1)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
OKN007	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKU012	△	DATA NOT AVAILABLE	.000	.000	.000	16.380	25.500	-.030	.000
R2F058	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	16.300	25.000	.000	

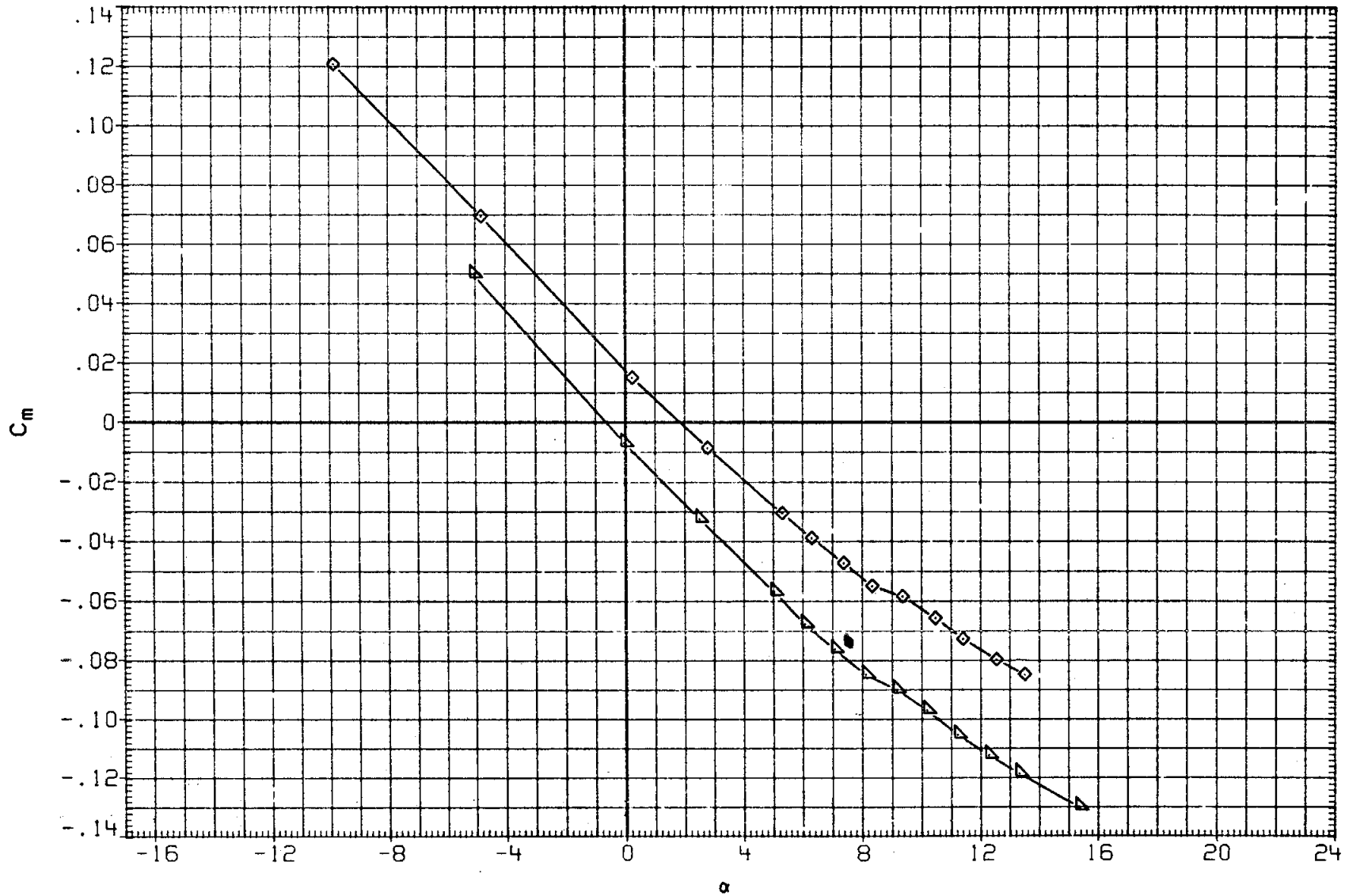

FIGURE 17. BASIC LONGITUDINAL, BODY FLAP EFFECTS

(J)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION
RK0001	○	DATA NOT AVAILABLE
OKN007	□	DATA NOT AVAILABLE
R2F012	◇	AMES 118-1-11 OA145A 01
RK0012	△	DATA NOT AVAILABLE
R2F058	◺	AMES 118-1-11 OA145A 01

BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
.000	.000	.000	.000	25.500	-.030	.000
.000	.000	.000	.000	25.000	.000	.000
.000	.000	.000	.000	25.000	.000	
.000	.000	.000	16.380	25.500	-.030	.000
.000	.000	.000	16.300	25.000	.000	

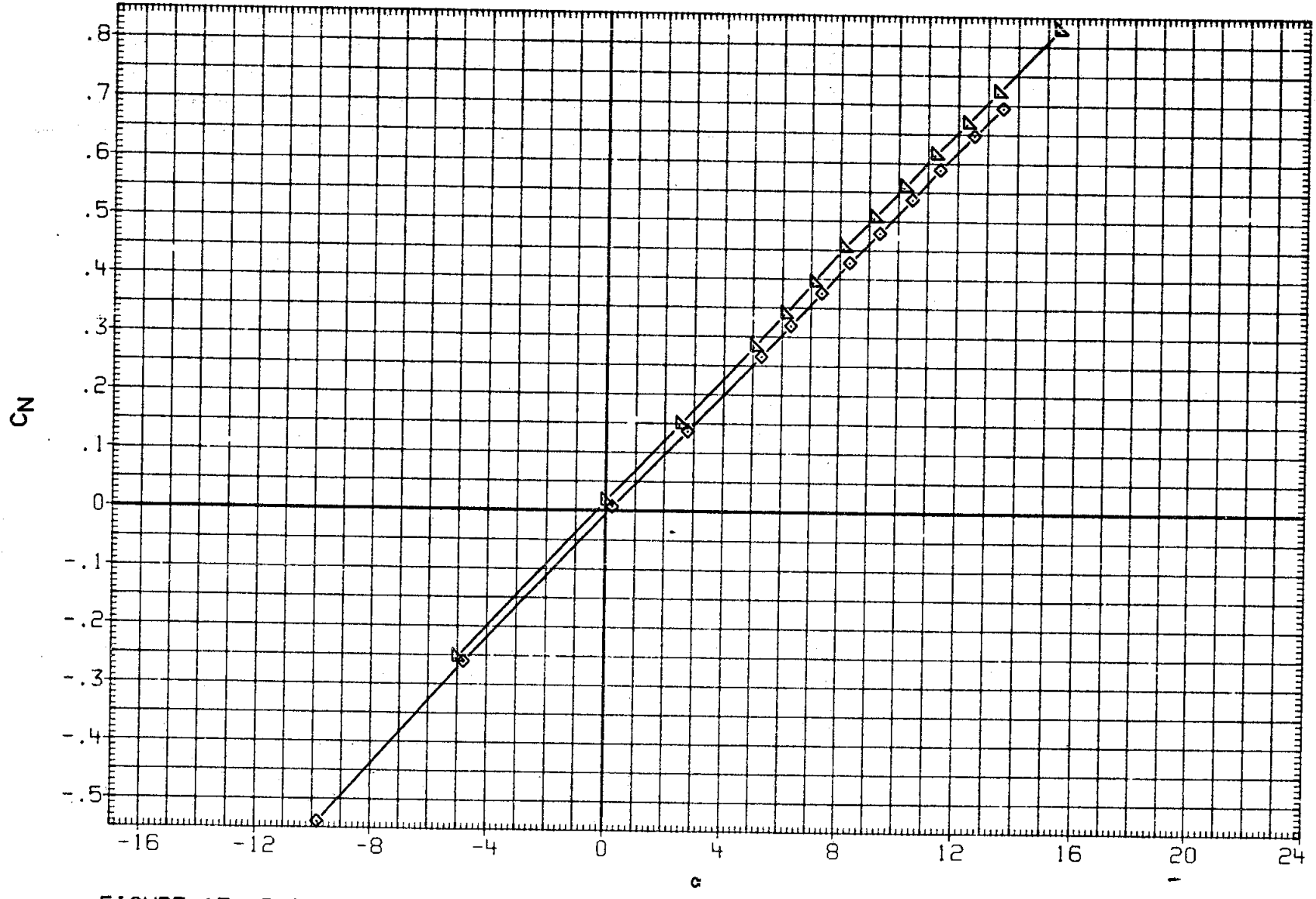

FIGURE 17. BASIC LONGITUDINAL, BODY FLAP EFFECTS

(J)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
OKN007	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0012	△	DATA NOT AVAILABLE	.000	.000	.000	16.380	25.500	-.030	.000
R2F058	◁	AMES 118-1-11 OA145A 01	.000	.000	.000	16.300	25.000	.000	

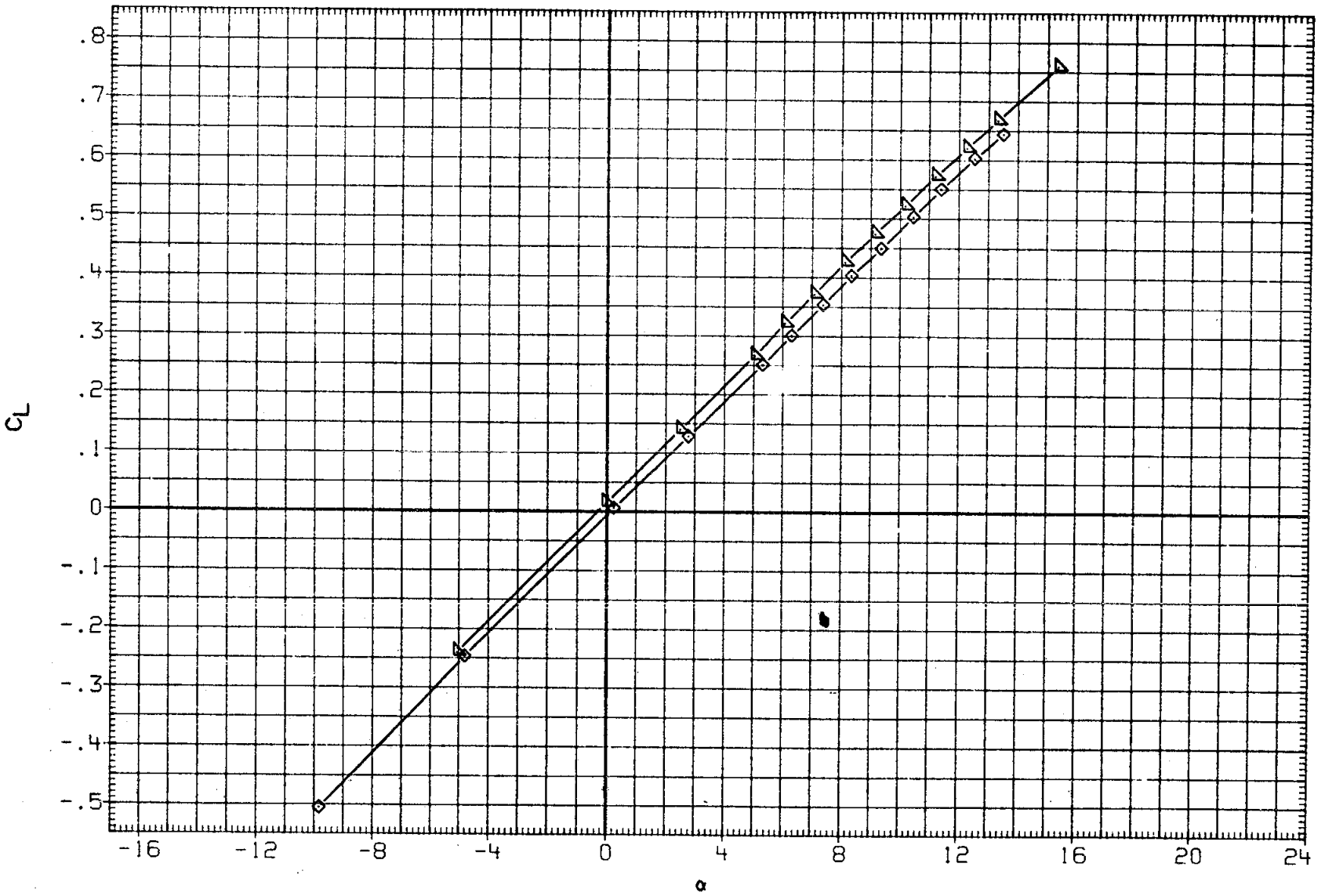

FIGURE 17. BASIC LONGITUDINAL, BODY FLAP EFFECTS

(J)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
OKN007	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0012	△	DATA NOT AVAILABLE	.000	.000	.000	16.380	25.500	-.030	.000
R2F058	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	16.300	25.000	.000	

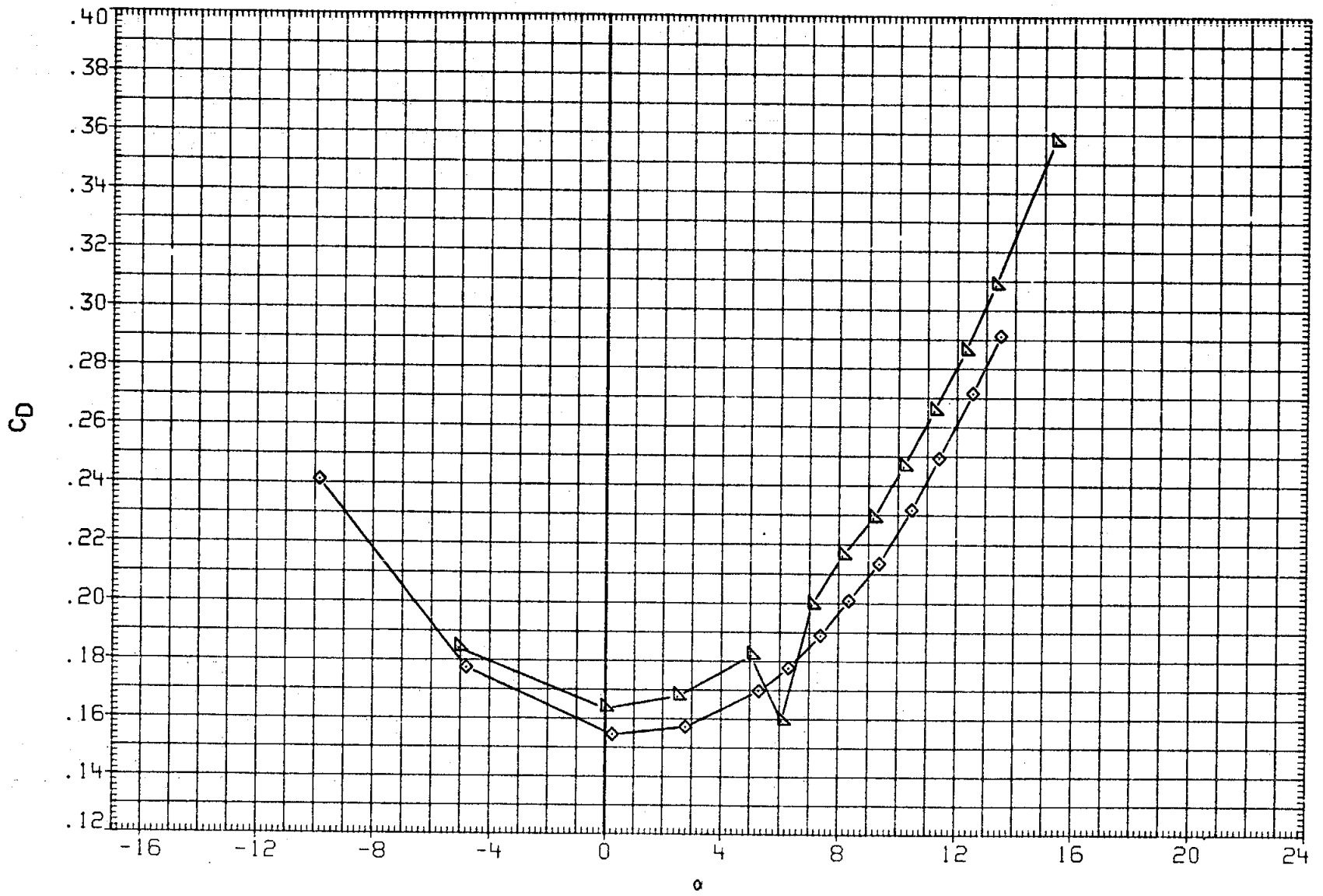

FIGURE 17. BASIC LONGITUDINAL, BODY FLAP EFFECTS

(J)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0001	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
OKN007	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0012	△	DATA NOT AVAILABLE	.000	.000	.000	16.380	25.500	-.030	.000
R2F058	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	16.300	25.000	.000	

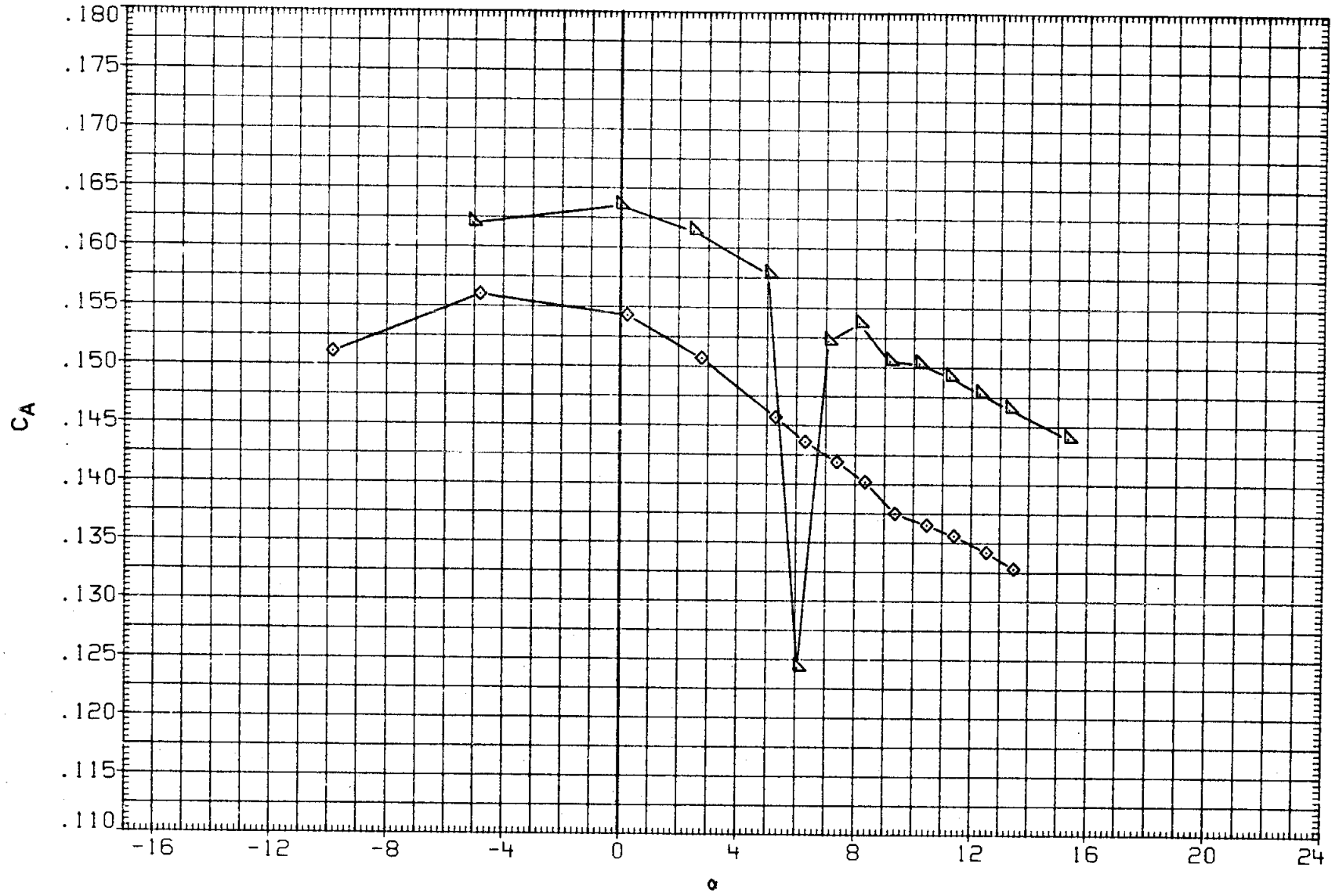

FIGURE 17. BASIC LONGITUDINAL, BODY FLAP EFFECTS

(J)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	DATA NOT AVAILABLE	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	△	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

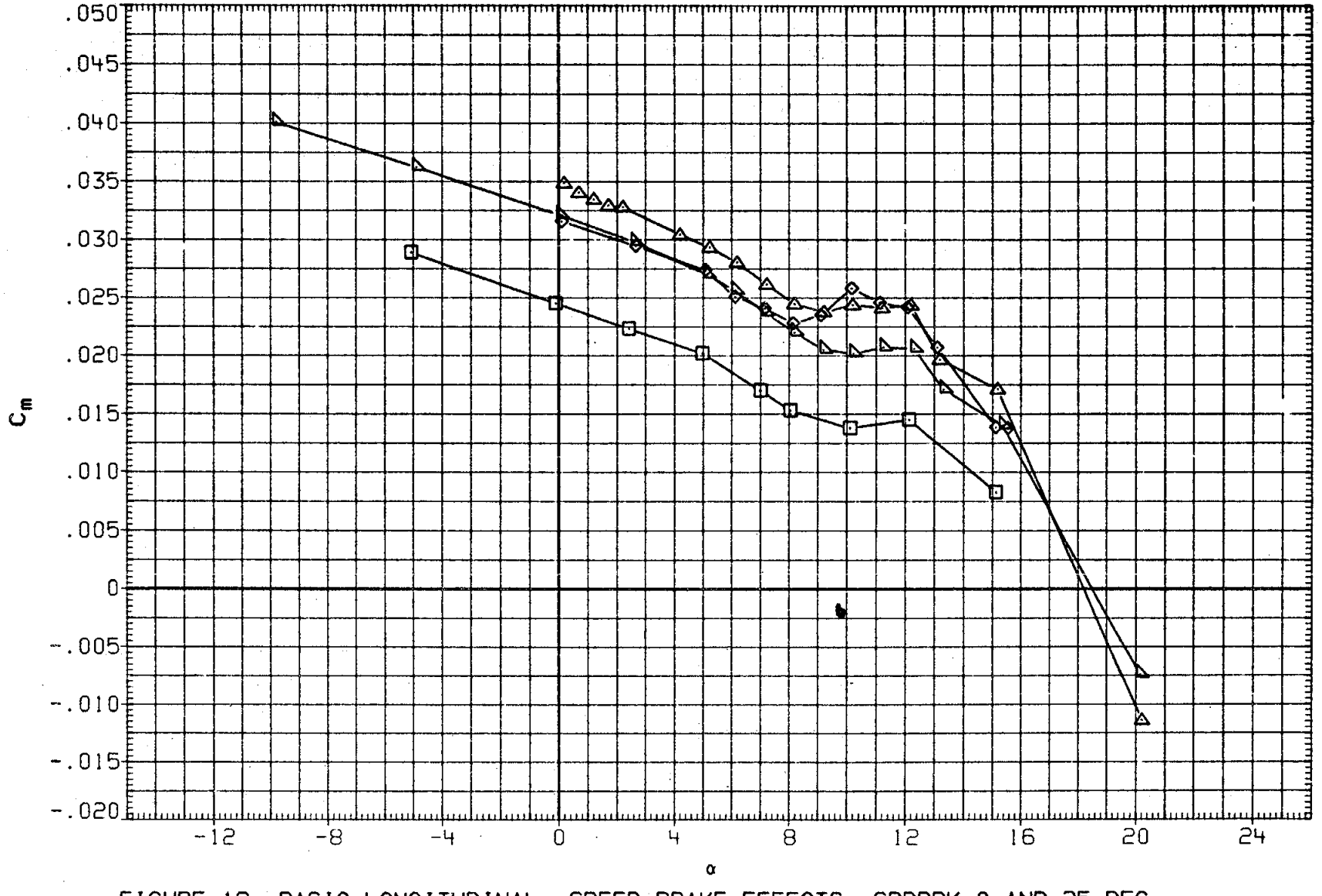

FIGURE 18. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK=0 AND 25 DEG.

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	DATA NOT AVAILABLE	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	△	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	△	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

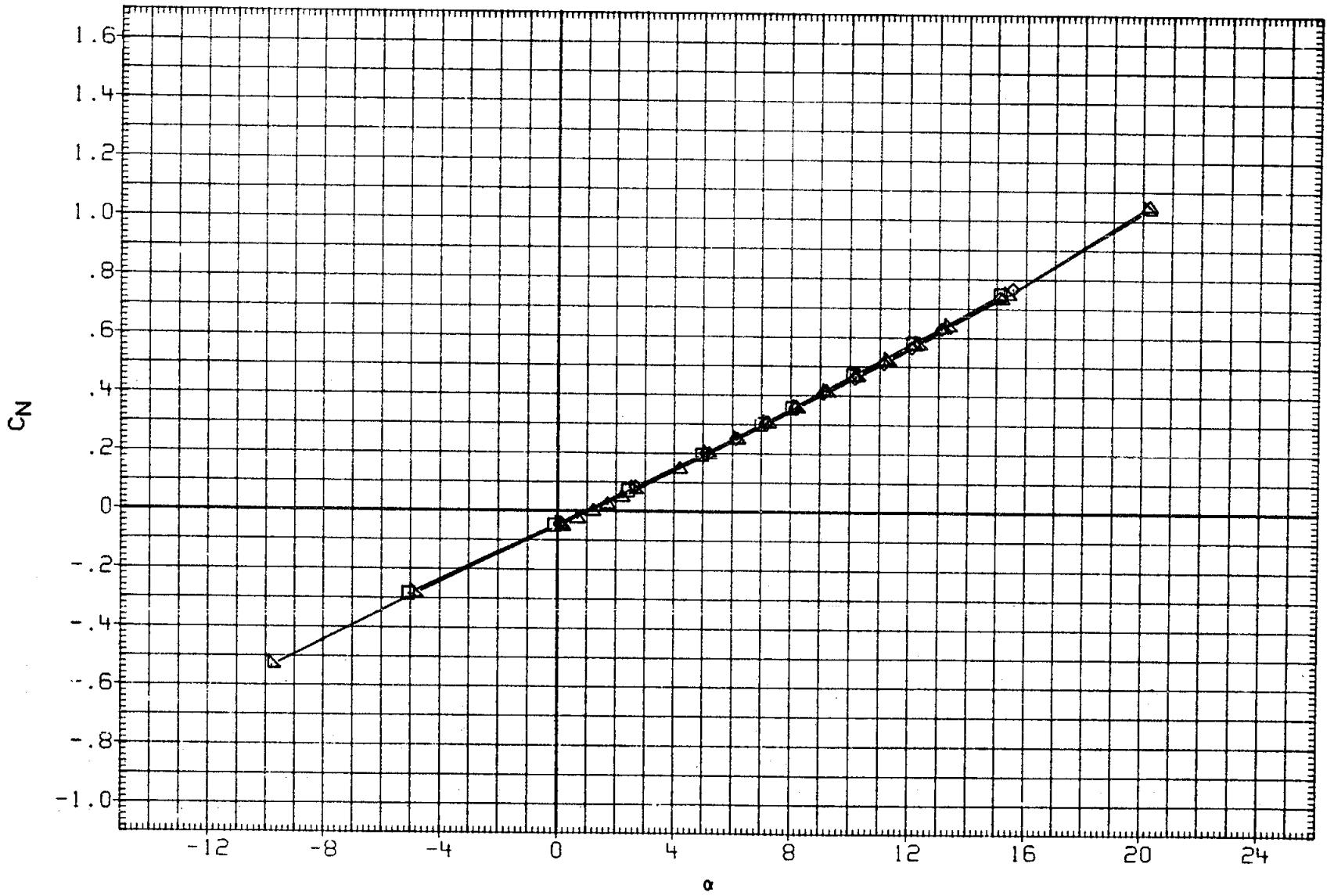

FIGURE 18. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK=0 AND 25 DEG.

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	DATA NOT AVAILABLE	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	△	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

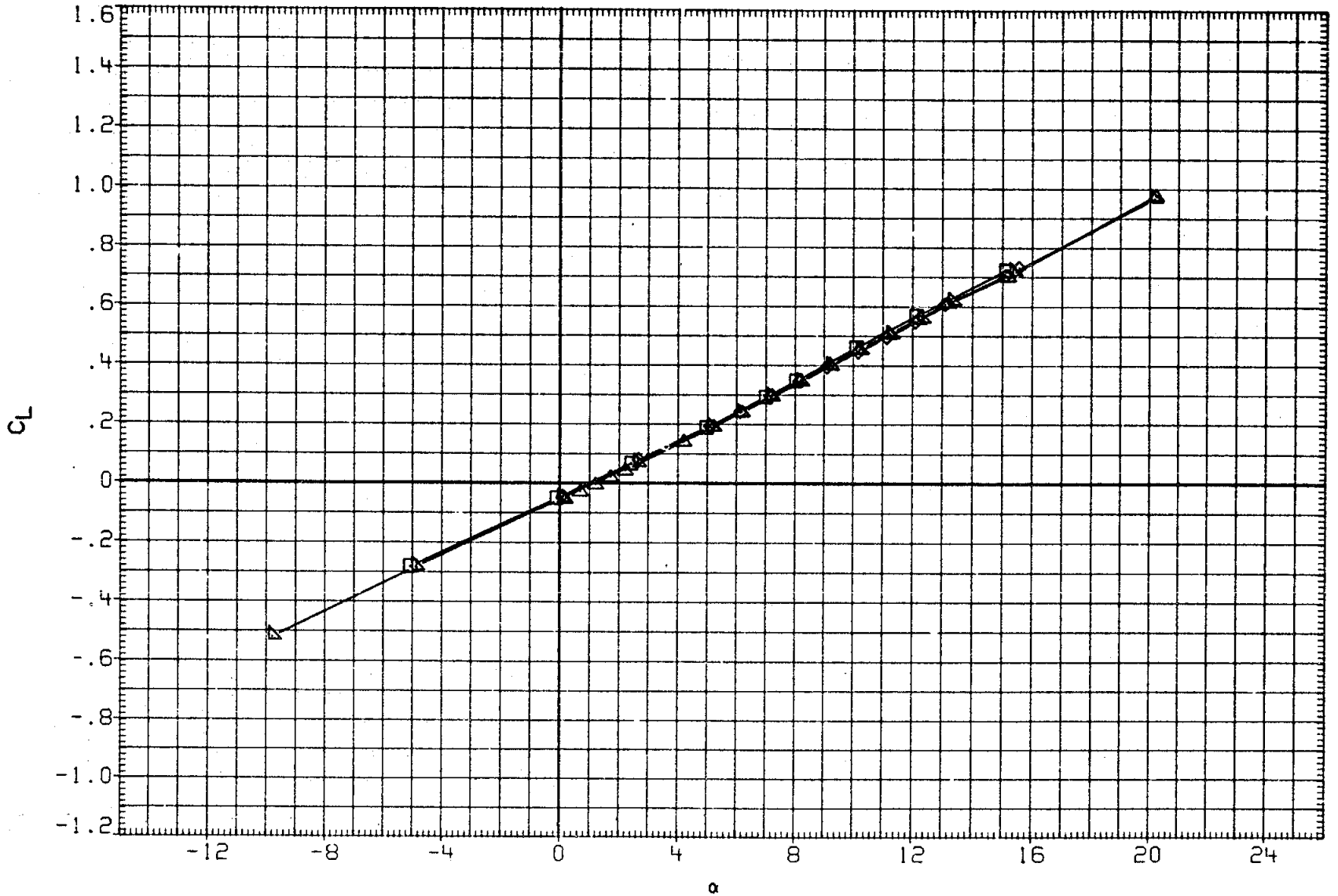

FIGURE 18. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK=0 AND 25 DEG.

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	DATA NOT AVAILABLE	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	△	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

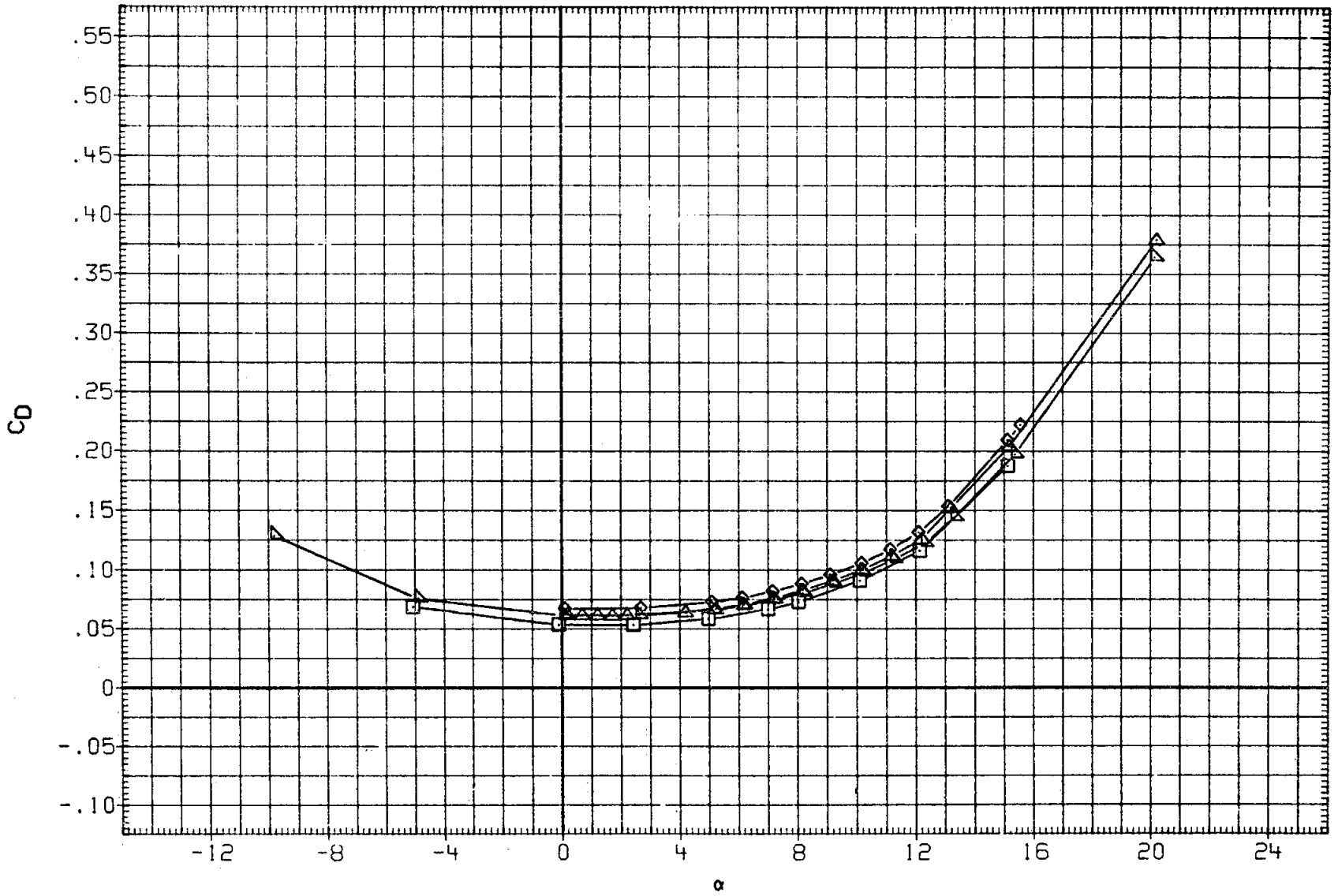

FIGURE 18. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK=0 AND 25 DEG.

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	DATA NOT AVAILABLE	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	△	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

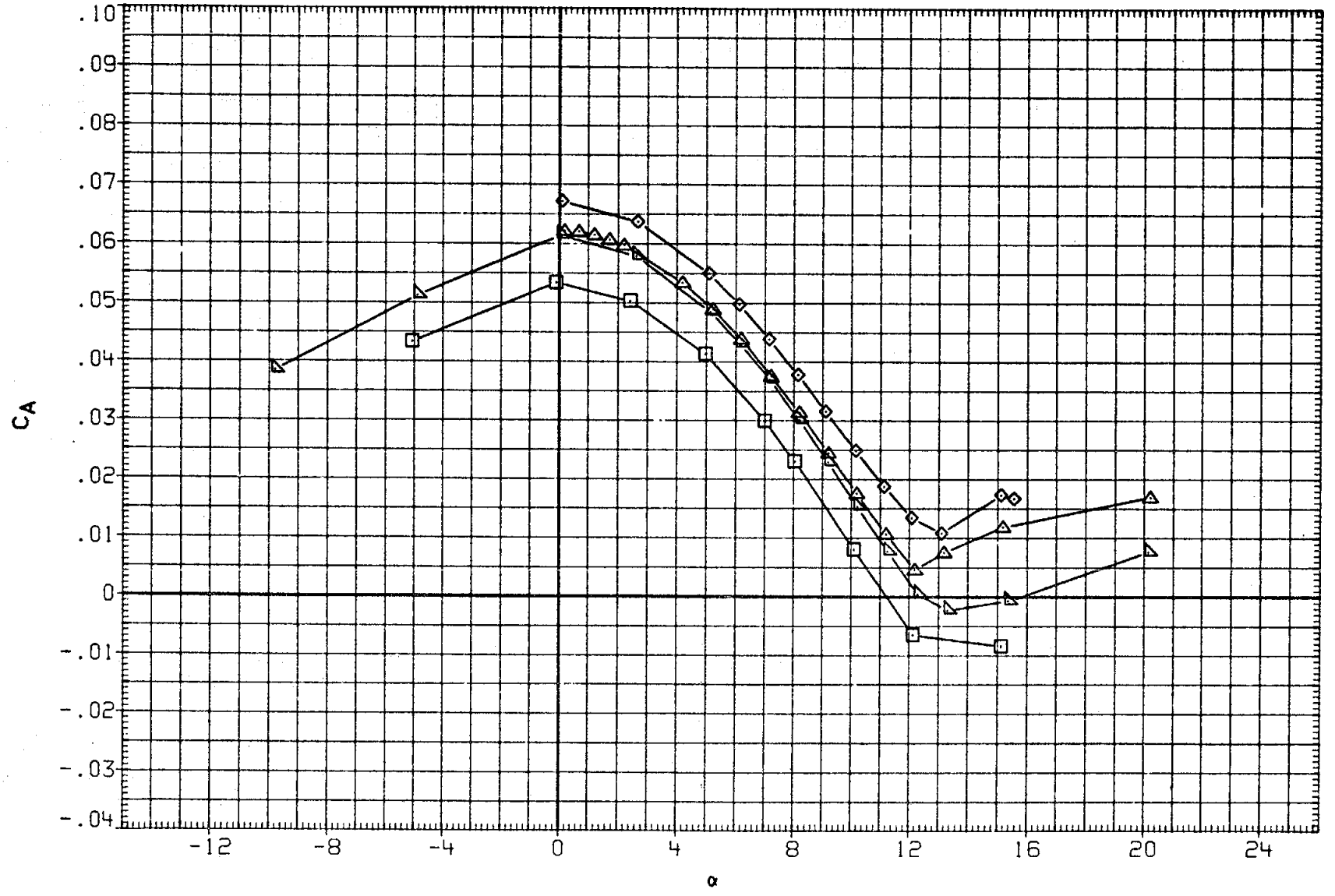

FIGURE 18. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK=0 AND 25 DEG.

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	△	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

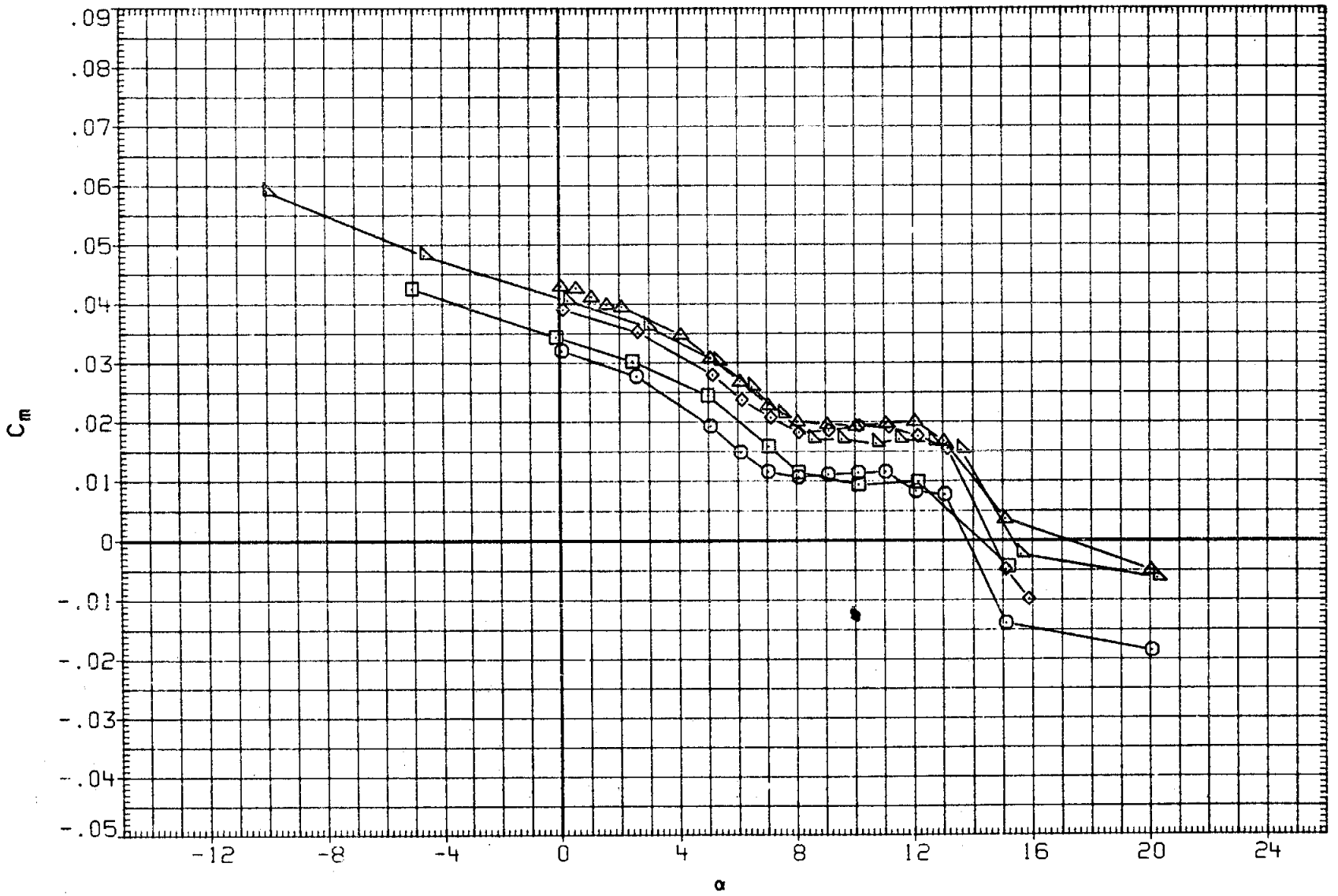

FIGURE 18. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK=0 AND 25 DEG.

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	△	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

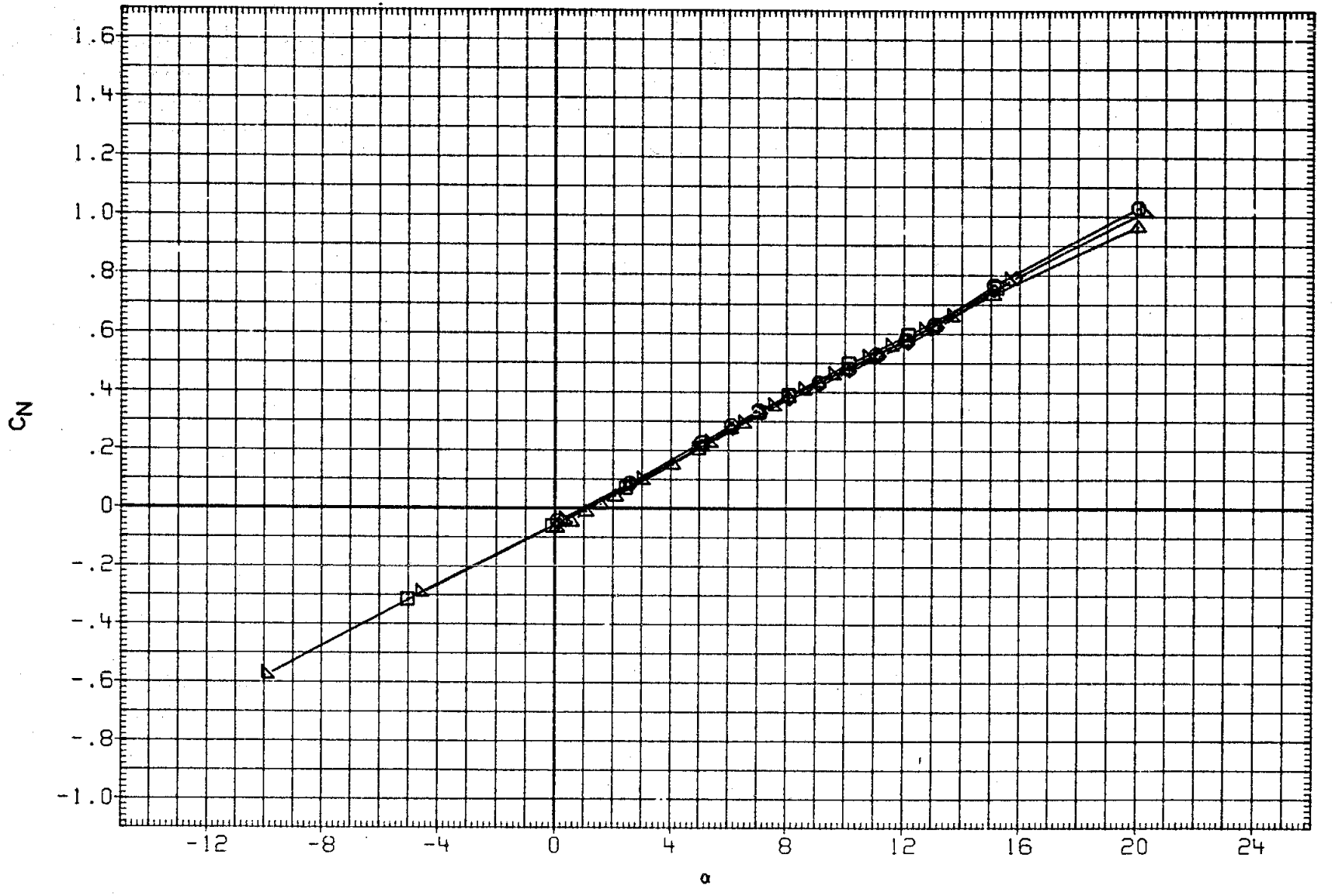

FIGURE 18. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK=0 AND 25 DEG.

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	△	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	▷	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

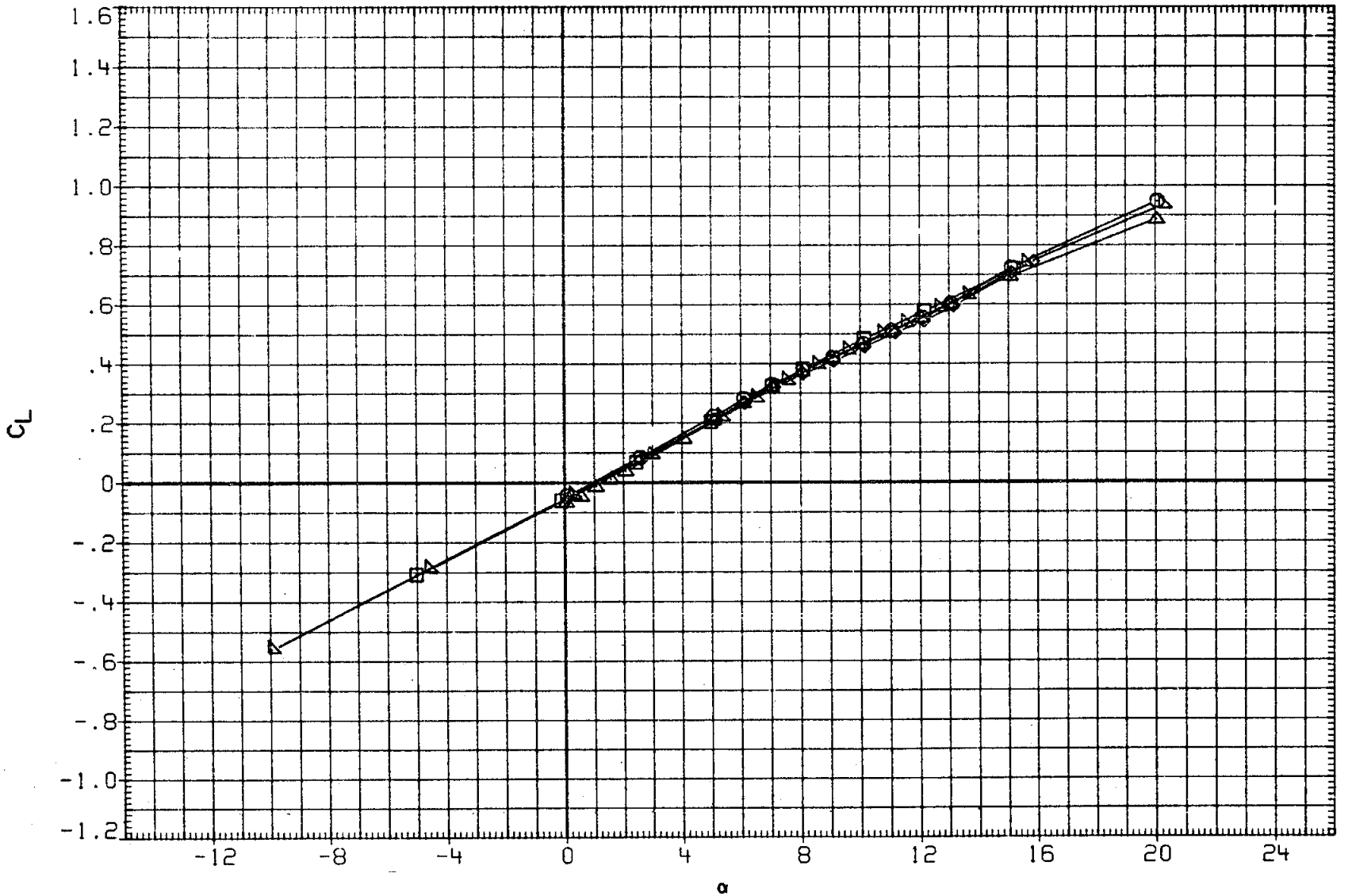

FIGURE 18. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK=0 AND 25 DEG.

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	△	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

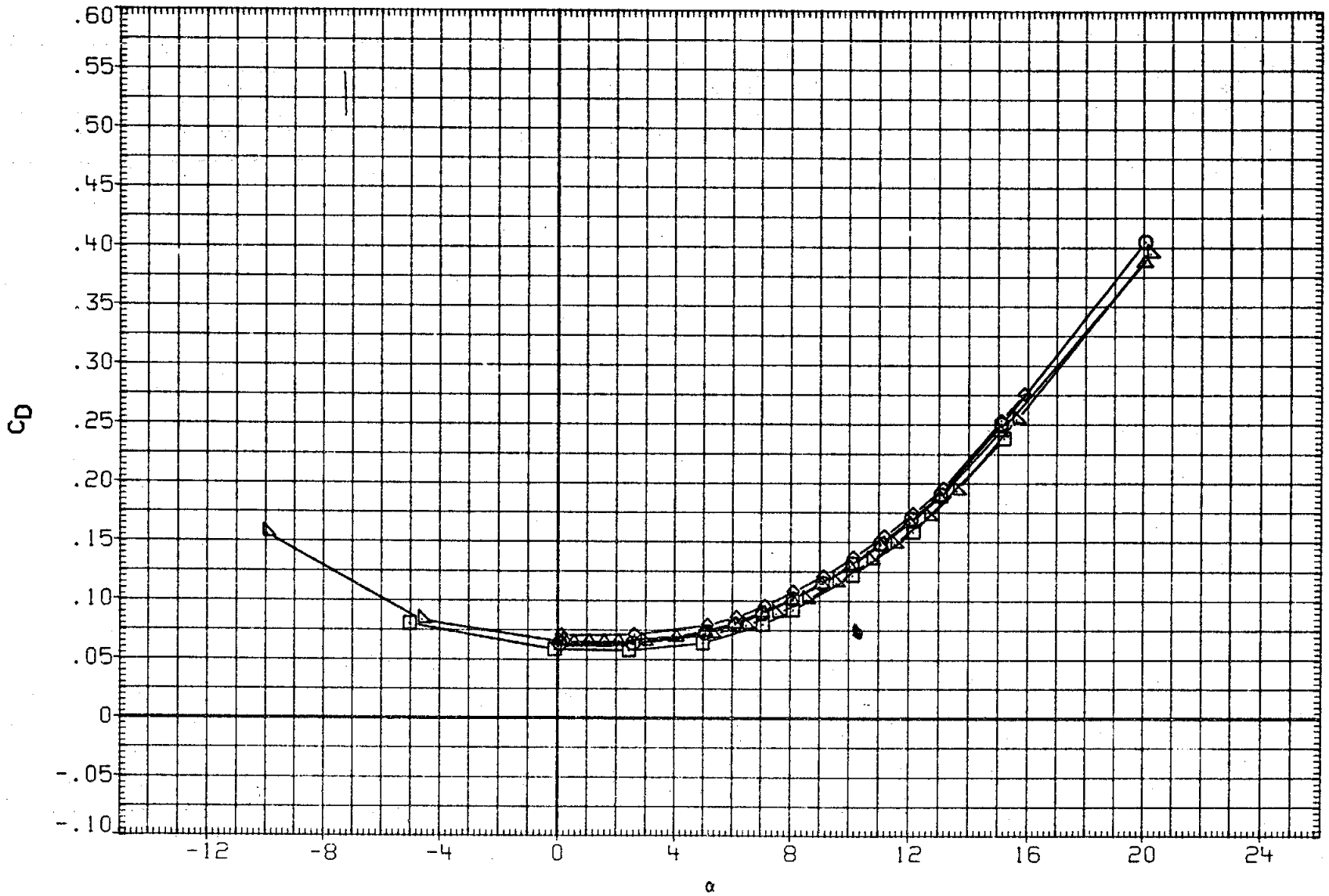

FIGURE 18. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK=0 AND 25 DEG.

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	△	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

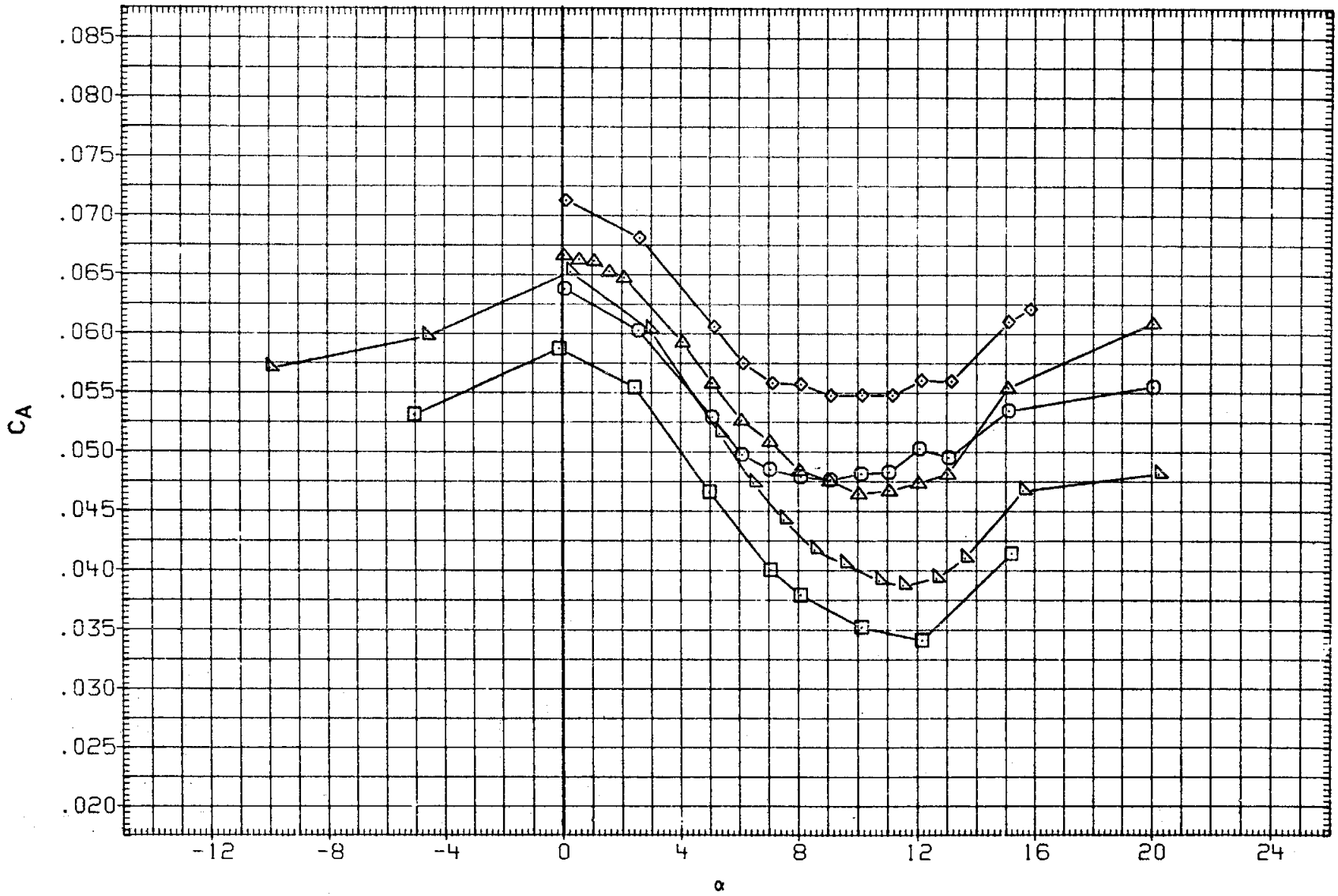

FIGURE 18. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK=0 AND 25 DEG.

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	△	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

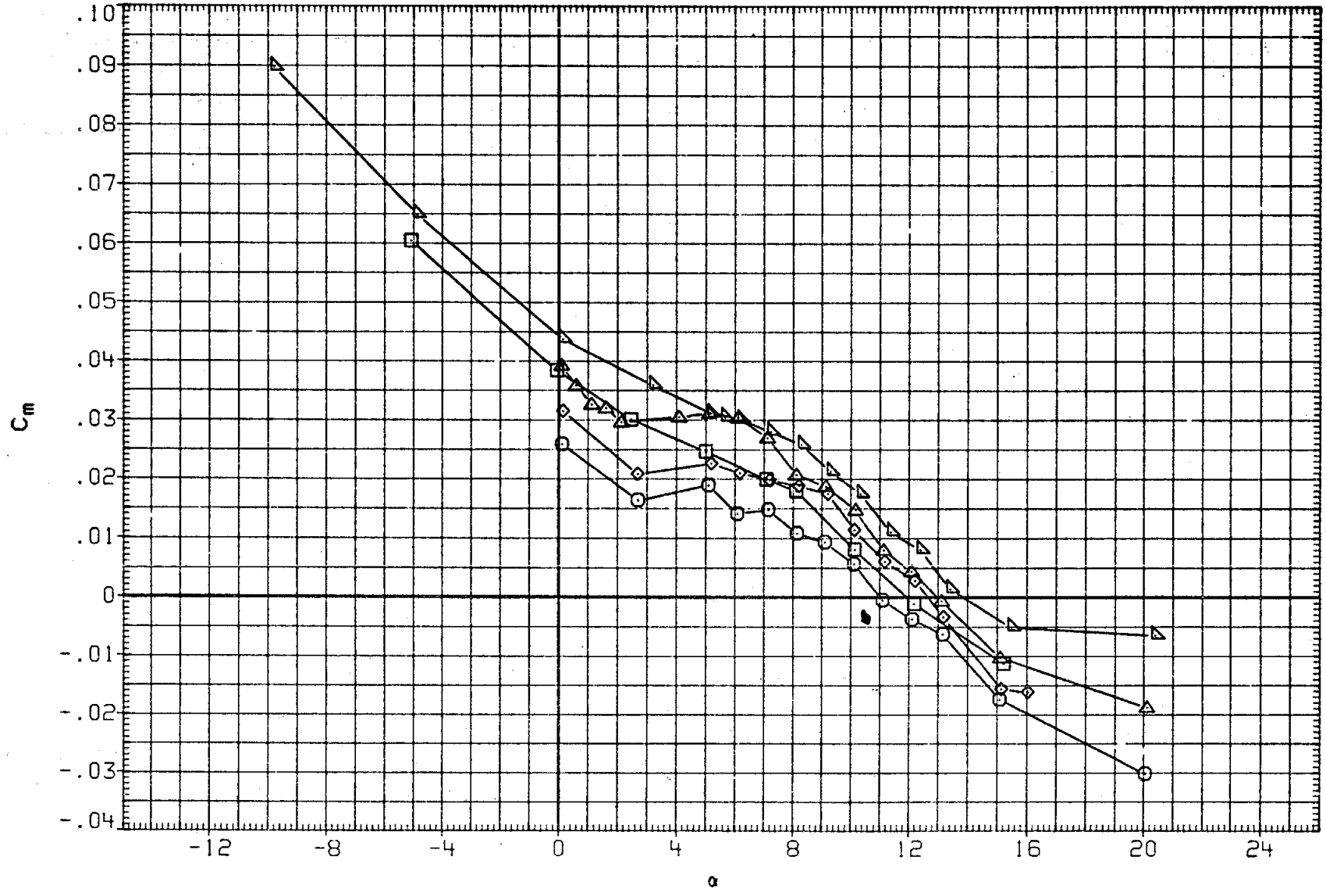

FIGURE 18. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK=0 AND 25 DEG.

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	△	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

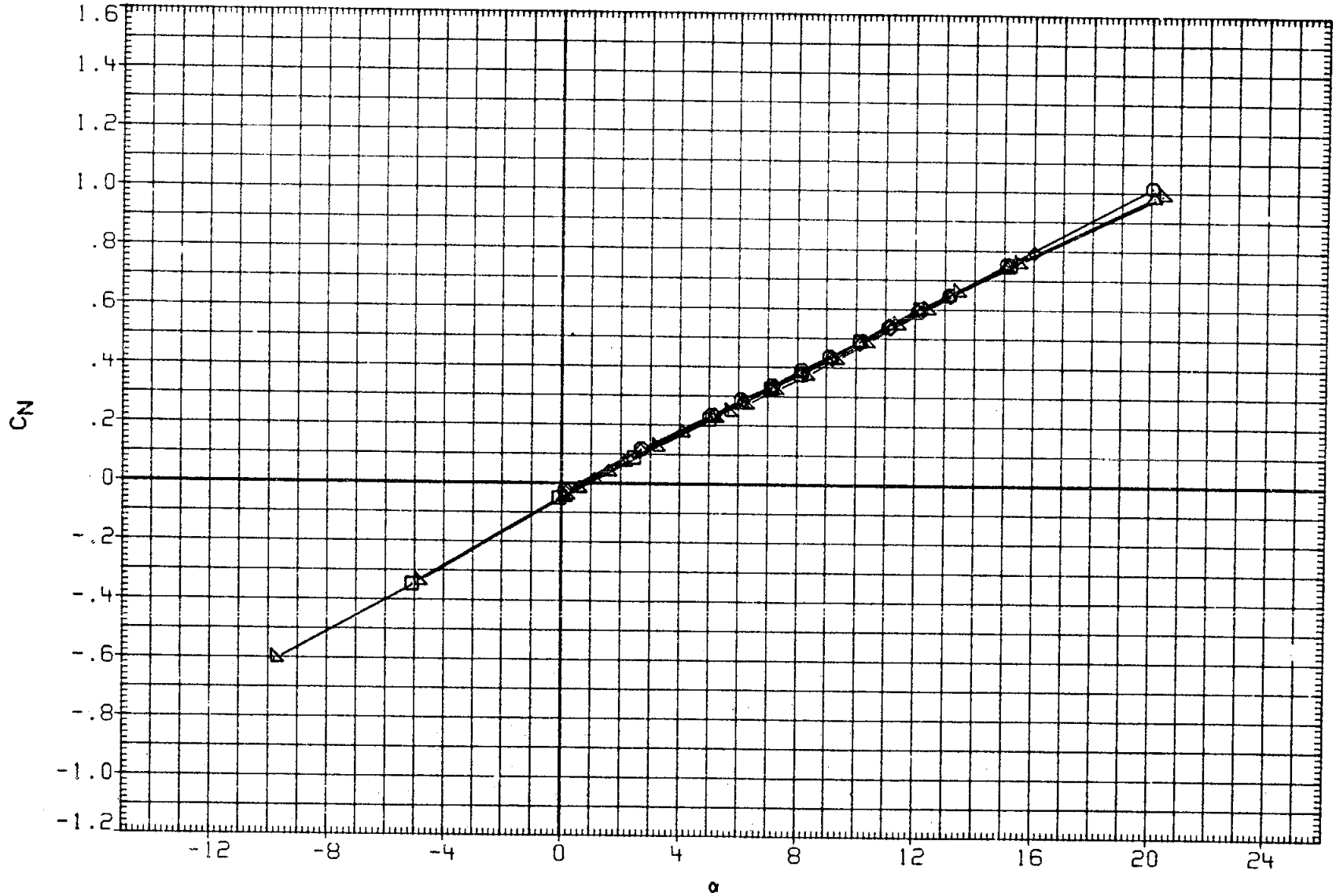

FIGURE 18. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK=0 AND 25 DEG.

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	.000	.000	
RK0003	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	△	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◺	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	25.000	.000	

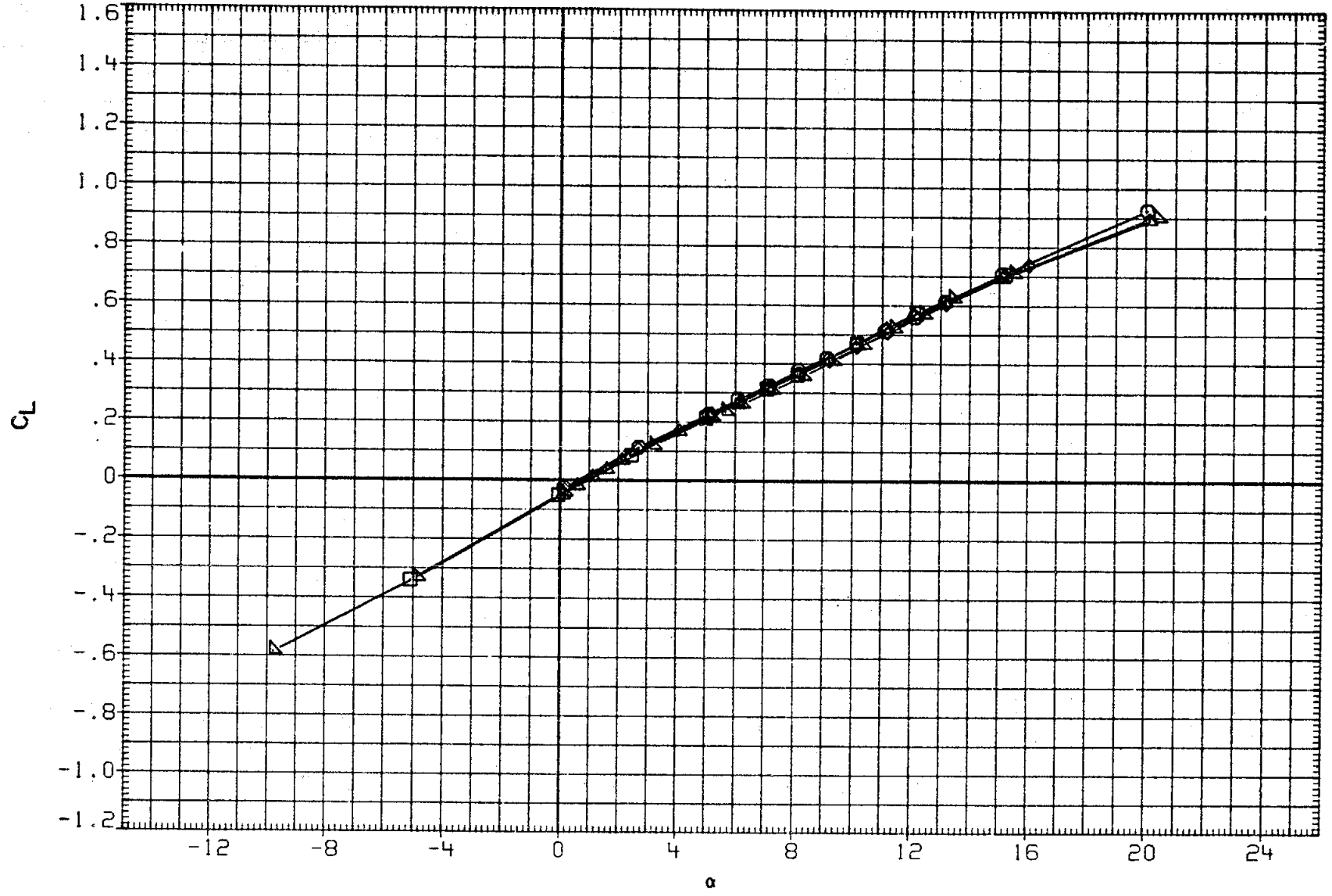

FIGURE 18. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK=0 AND 25 DEG.

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	△	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

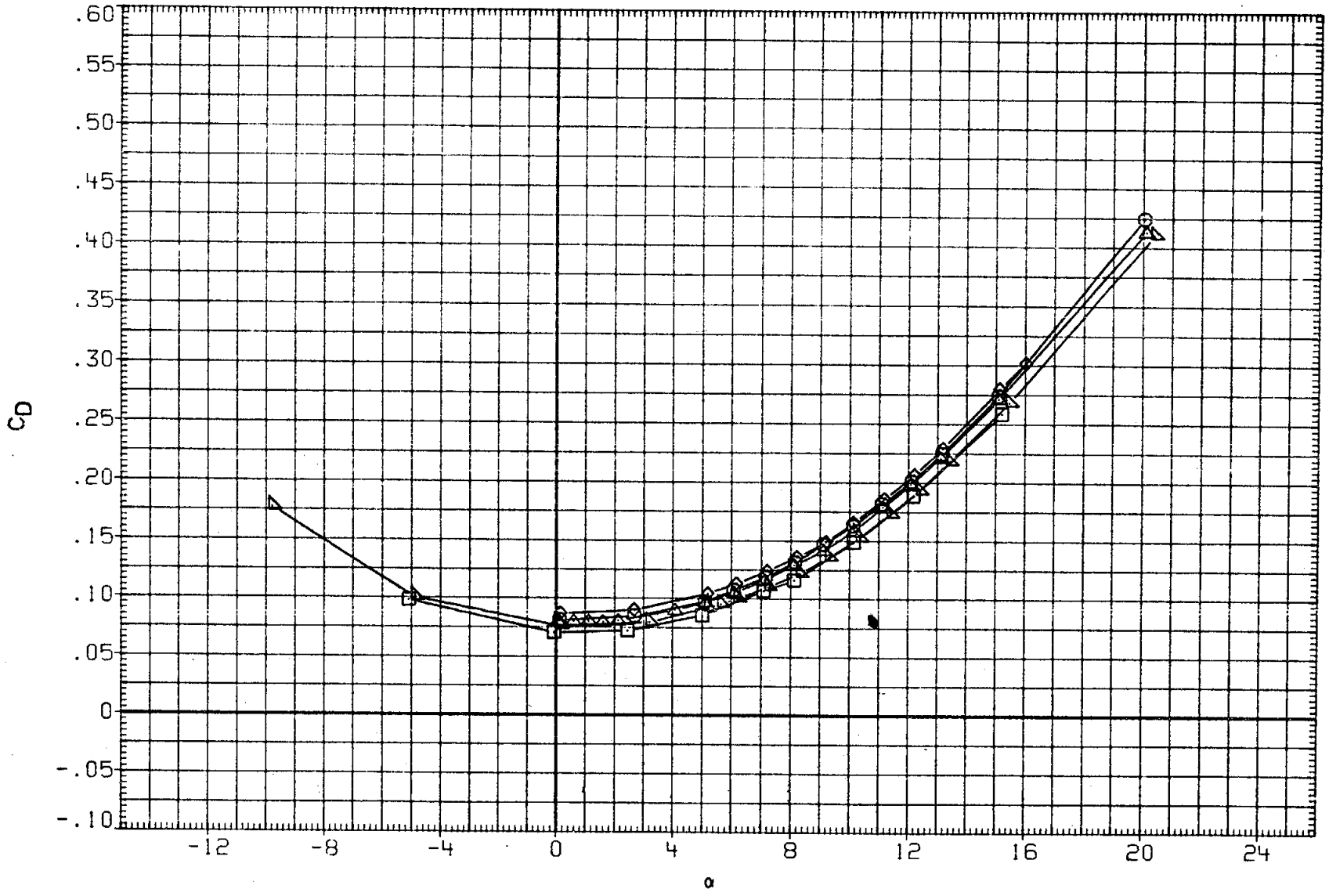

FIGURE 18. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK=0 AND 25 DEG.

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	△	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

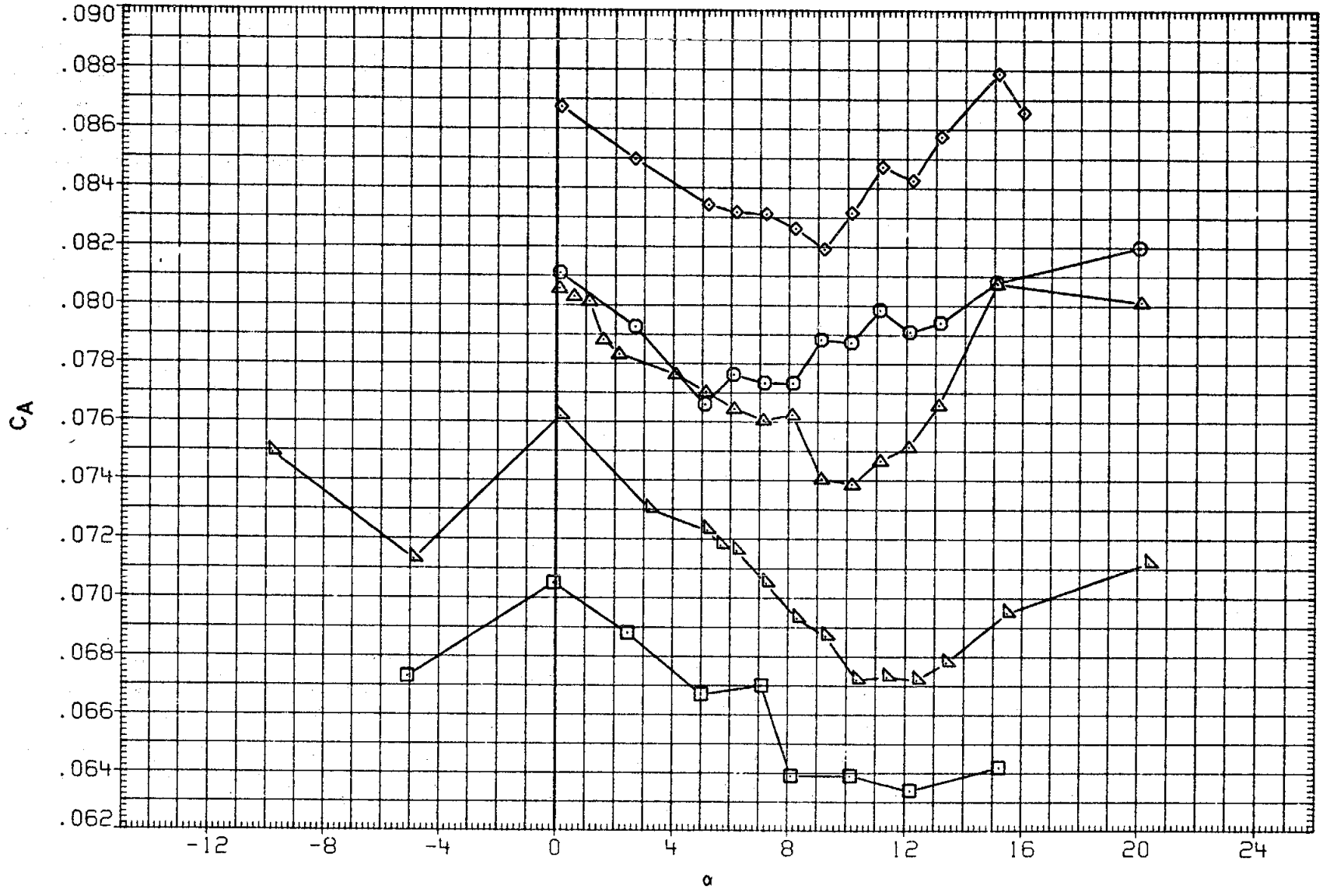

FIGURE 18. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK=0 AND 25 DEG.

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	△	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

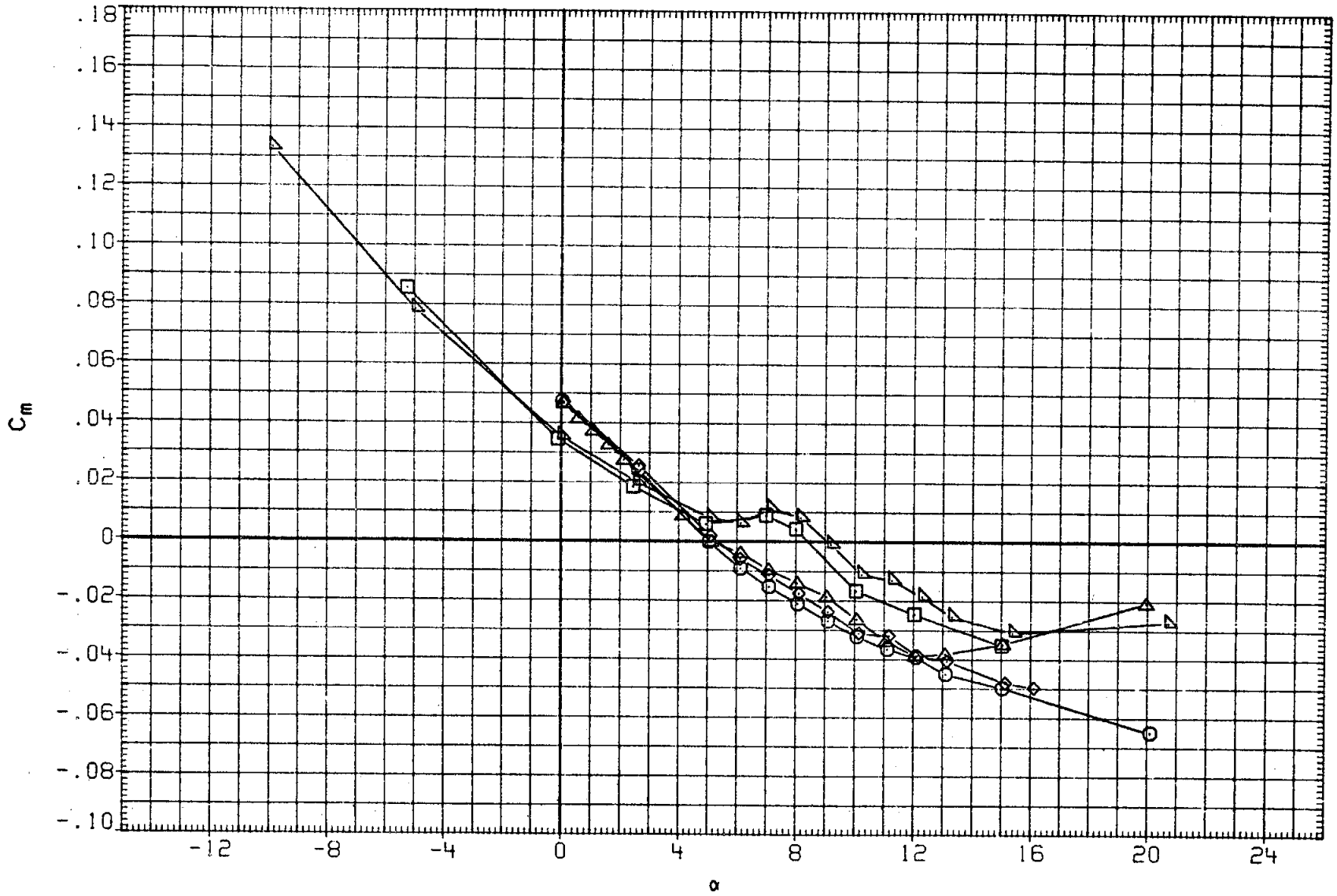

FIGURE 18. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK=0 AND 25 DEG.

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	△	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

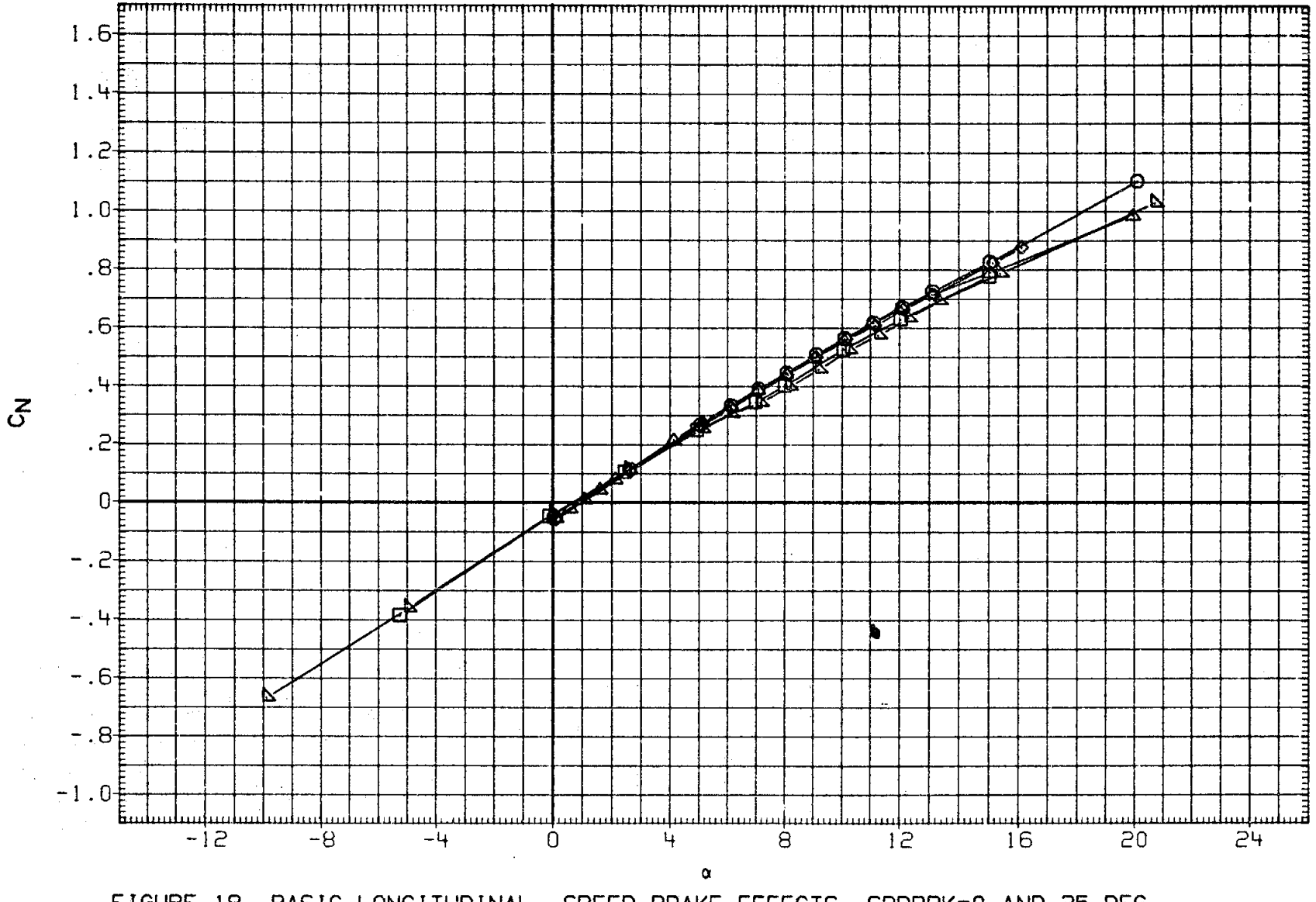

FIGURE 18. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK=0 AND 25 DEG.

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	.000	.000	
RK0003	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKNC..	△	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	▷	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	25.000	.000	

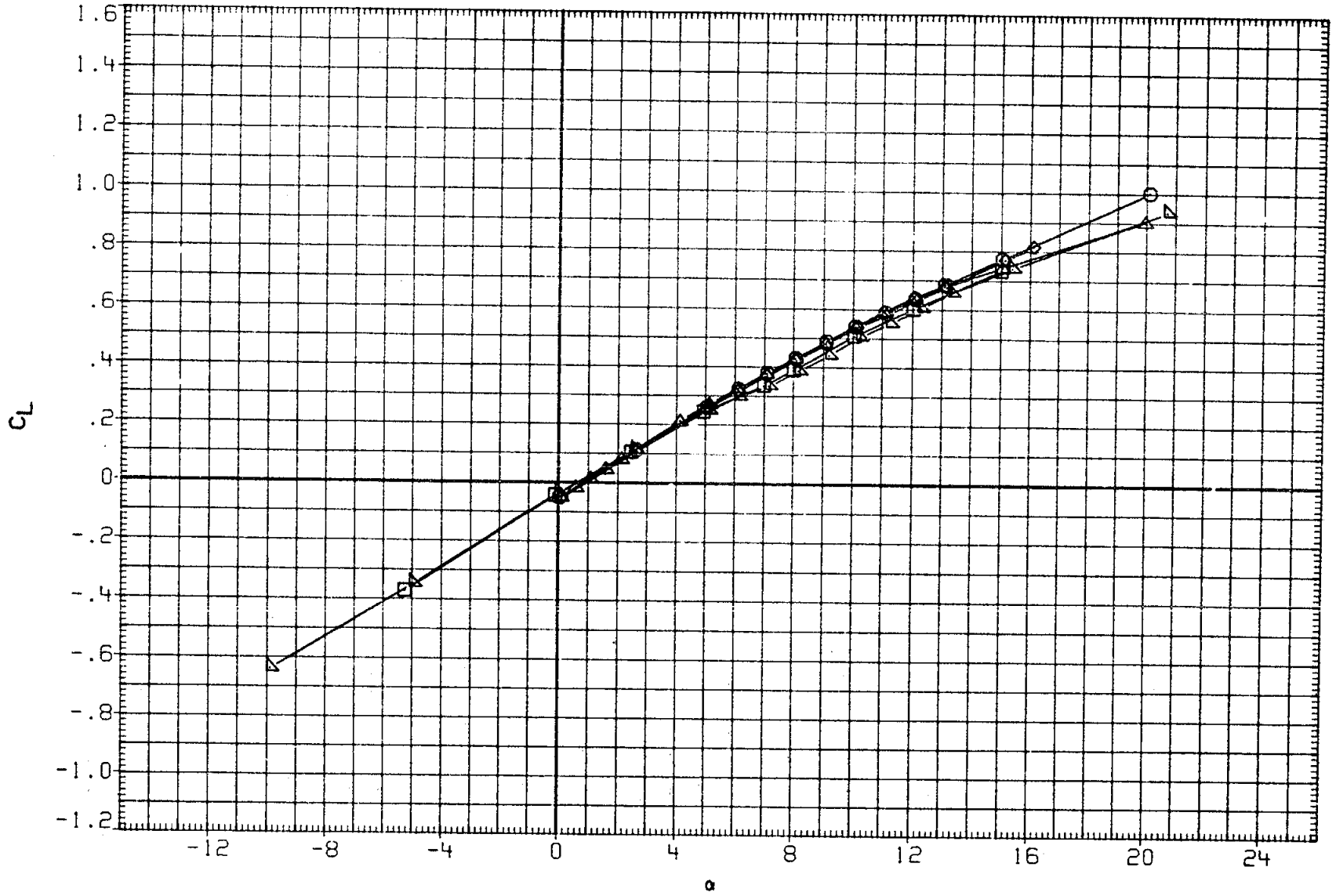

FIGURE 18. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK=0 AND 25 DEG.

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	△	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

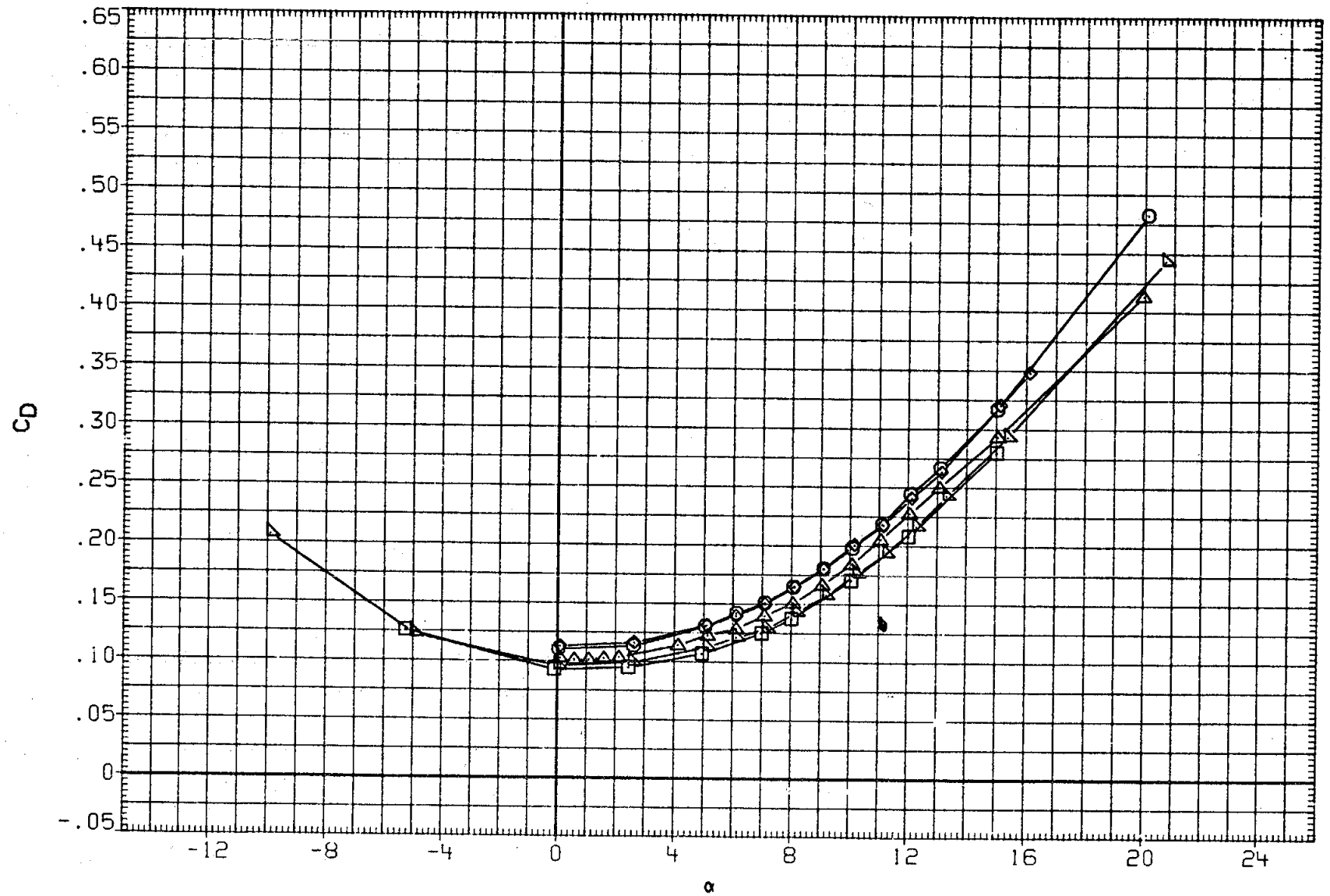

FIGURE 18. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK=0 AND 25 DEG.

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	△	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

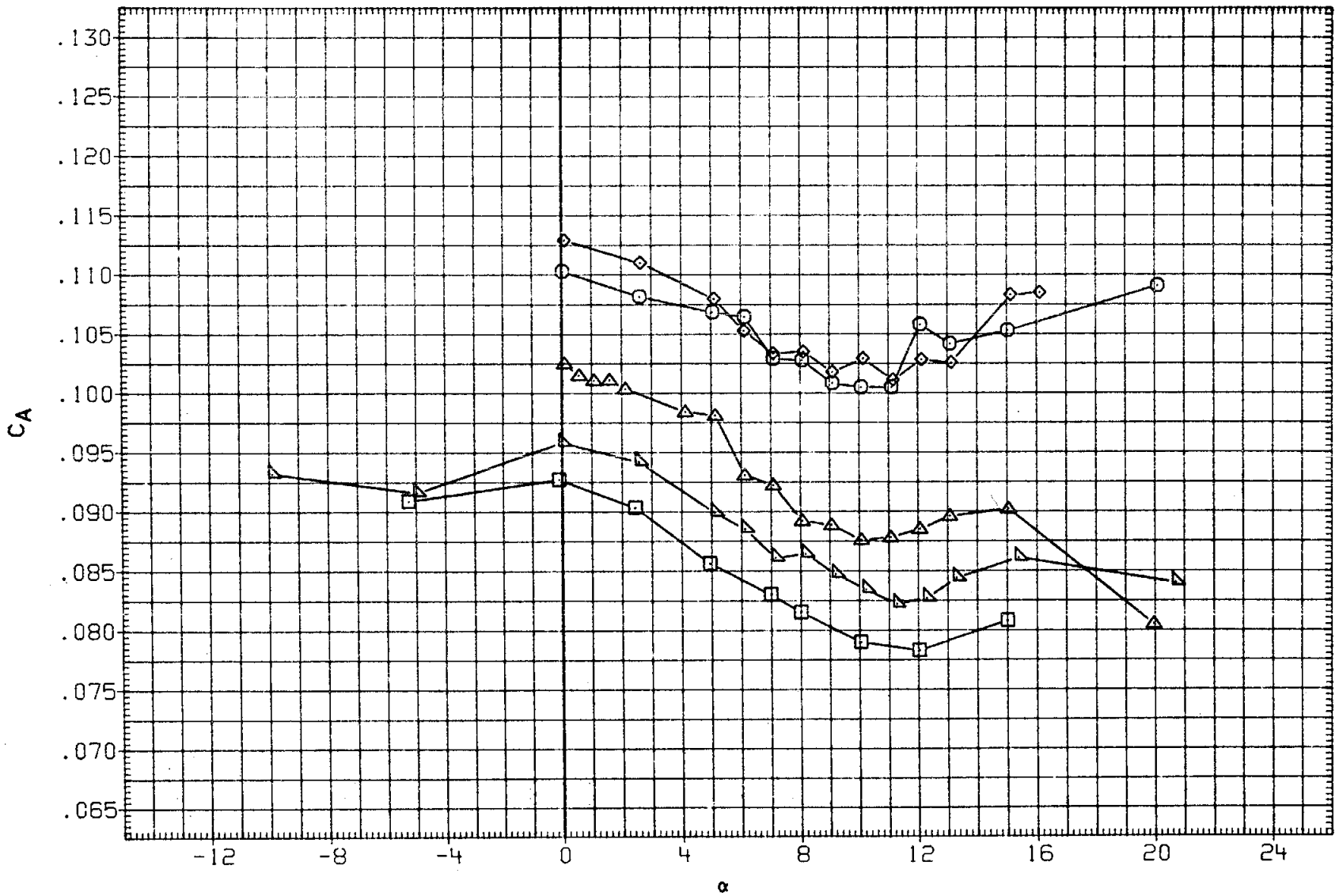

FIGURE 18. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK=0 AND 25 DEG.

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	DATA NOT AVAILABLE	.000	.000	.000	.000	.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	△	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◺	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	

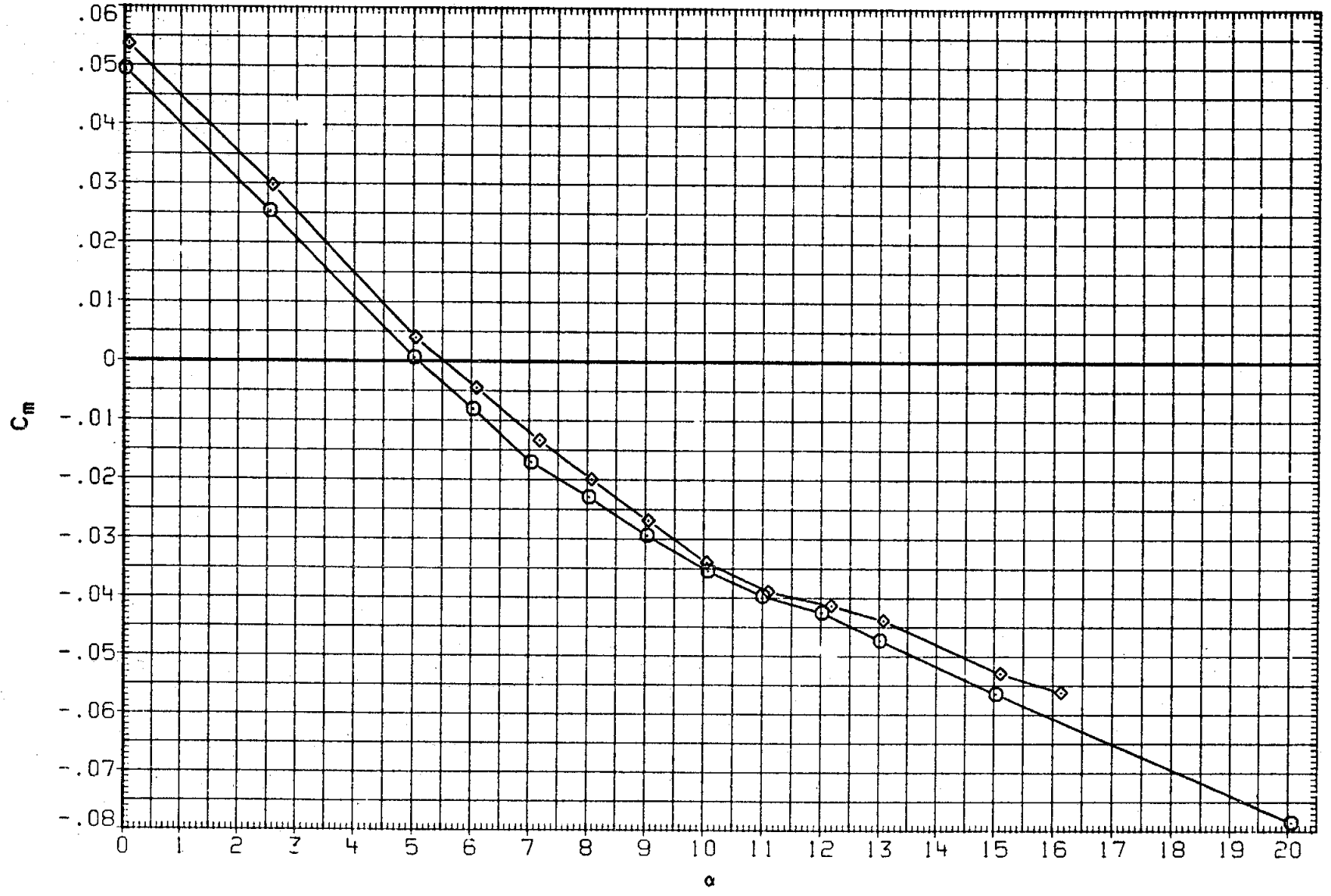

FIGURE 18. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK=0 AND 25 DEG.

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	DATA NOT AVAILABLE	.000	.000	.000	.000	.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	△	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◺	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	

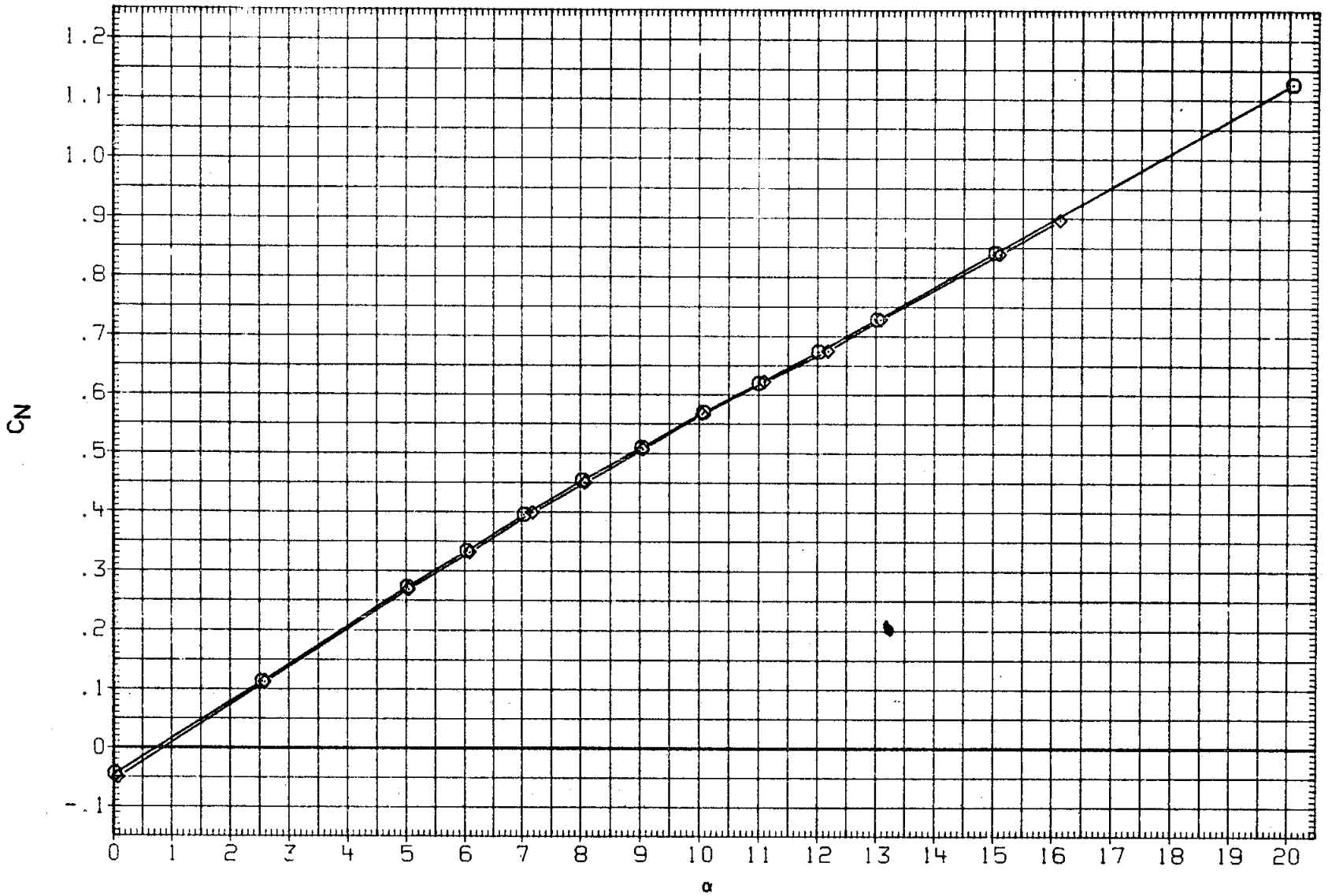

FIGURE 18. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK=0 AND 25 DEG.

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	DATA NOT AVAILABLE	.000	.000	.000	.000	.000	.000	
RK0003	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	△	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◺	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	

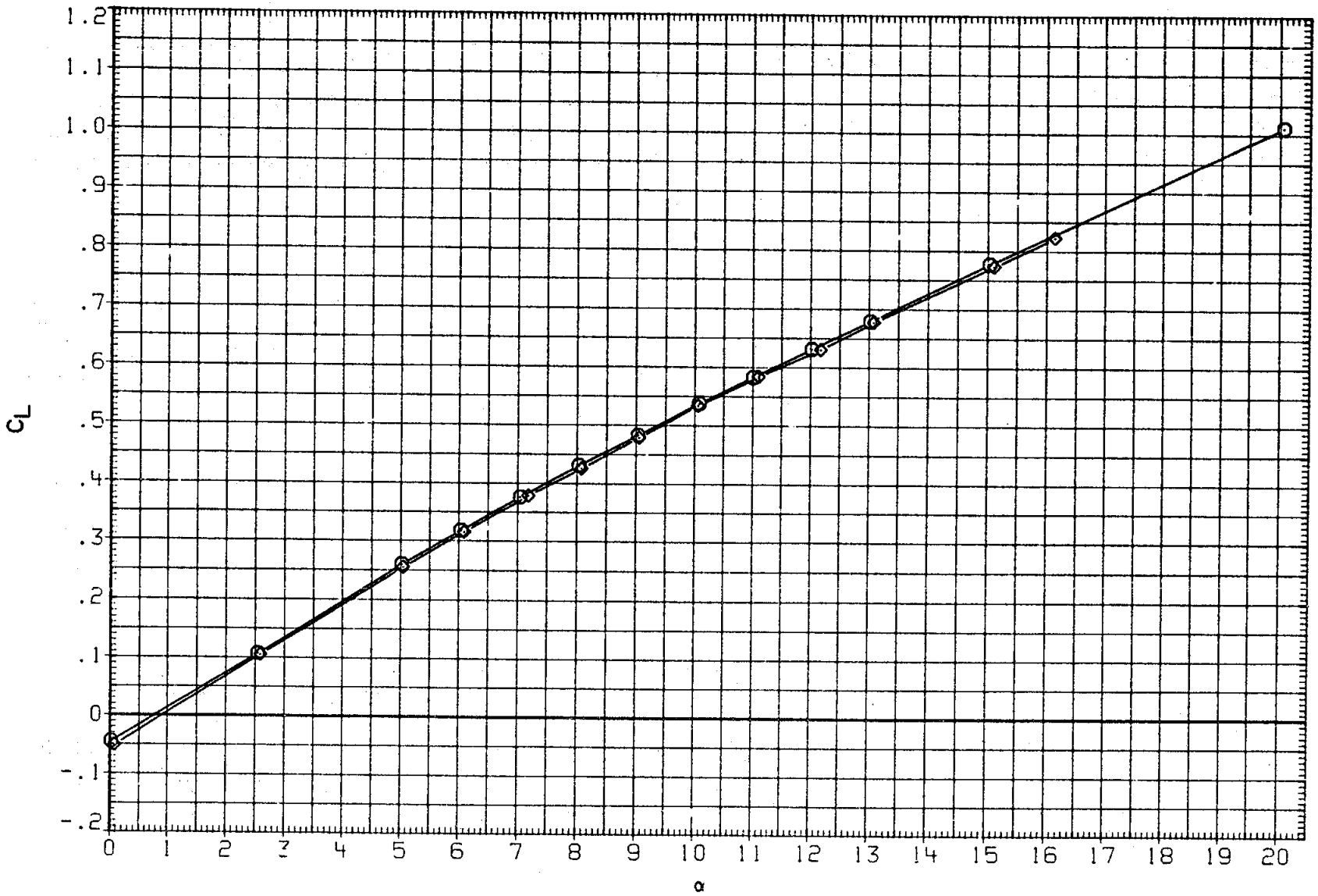

FIGURE 18. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK=0 AND 25 DEG.

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	DATA NOT AVAILABLE	.000	.000	.000	.000	.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	△	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◺	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	

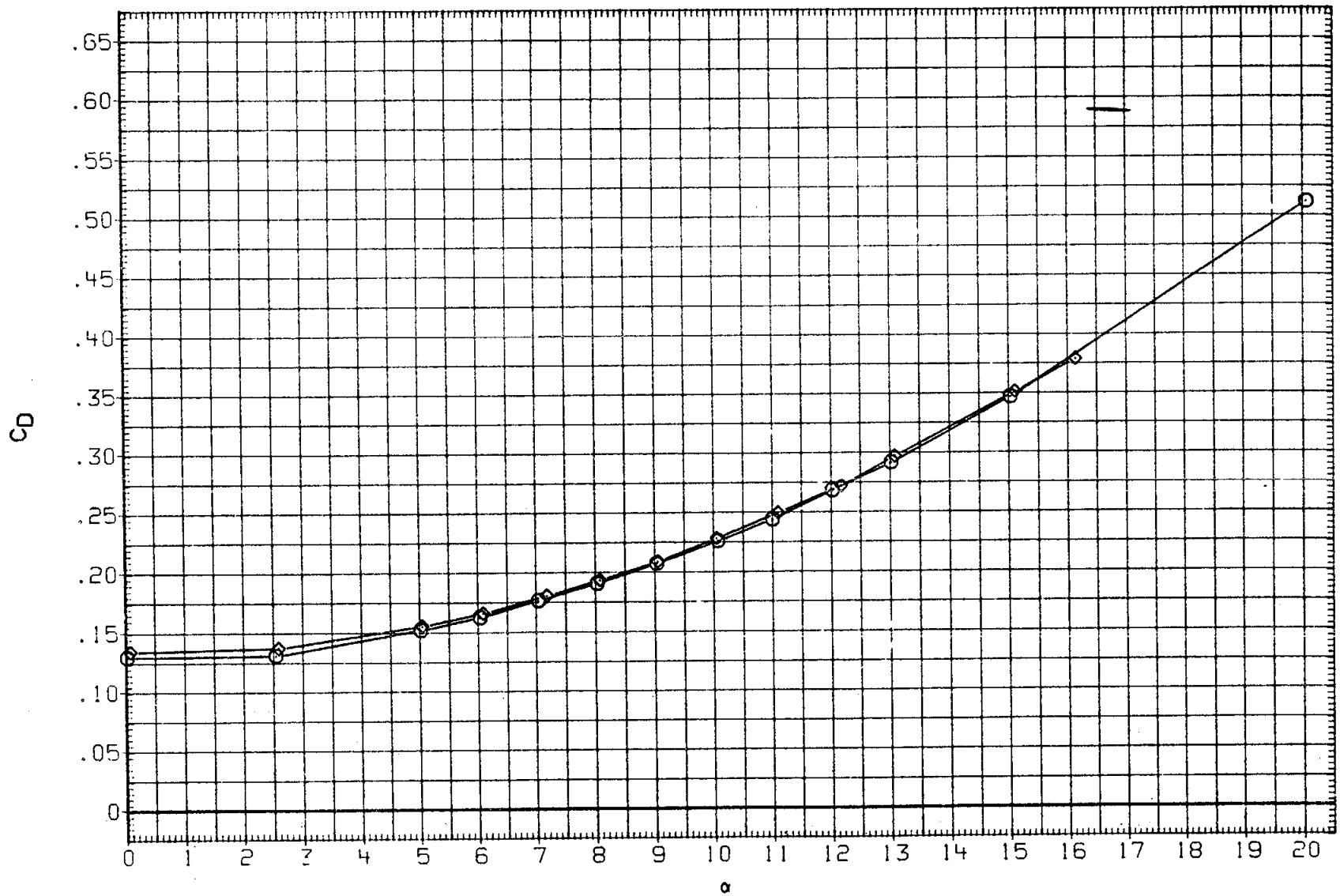

FIGURE 18. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK=0 AND 25 DEG.

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	DATA NOT AVAILABLE	.000	.000	.000	.000	.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	△	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◺	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	

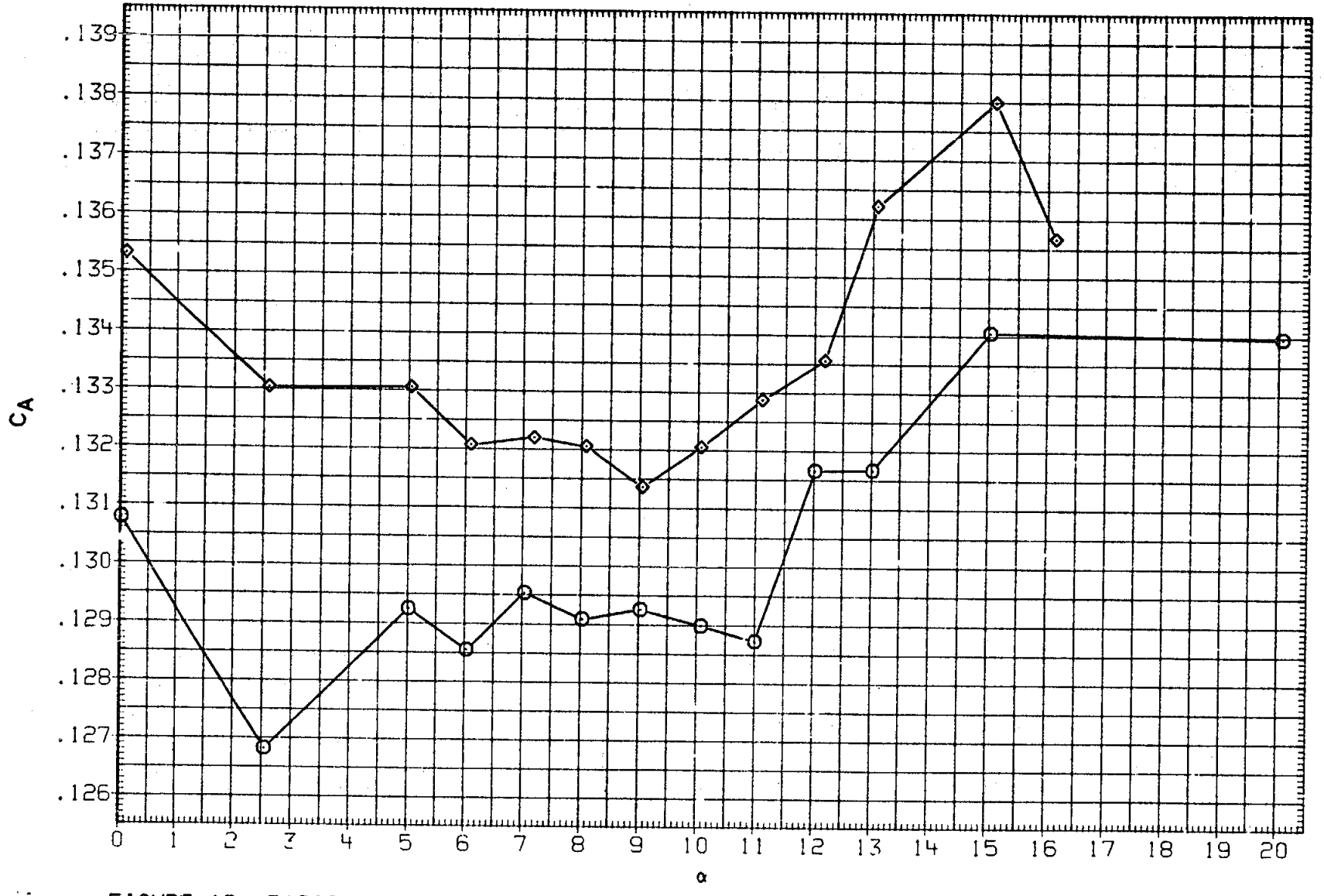

FIGURE 18. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK=0 AND 25 DEG.

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	DATA NOT AVAILABLE	.000	.000	.000	.000	.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	△	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

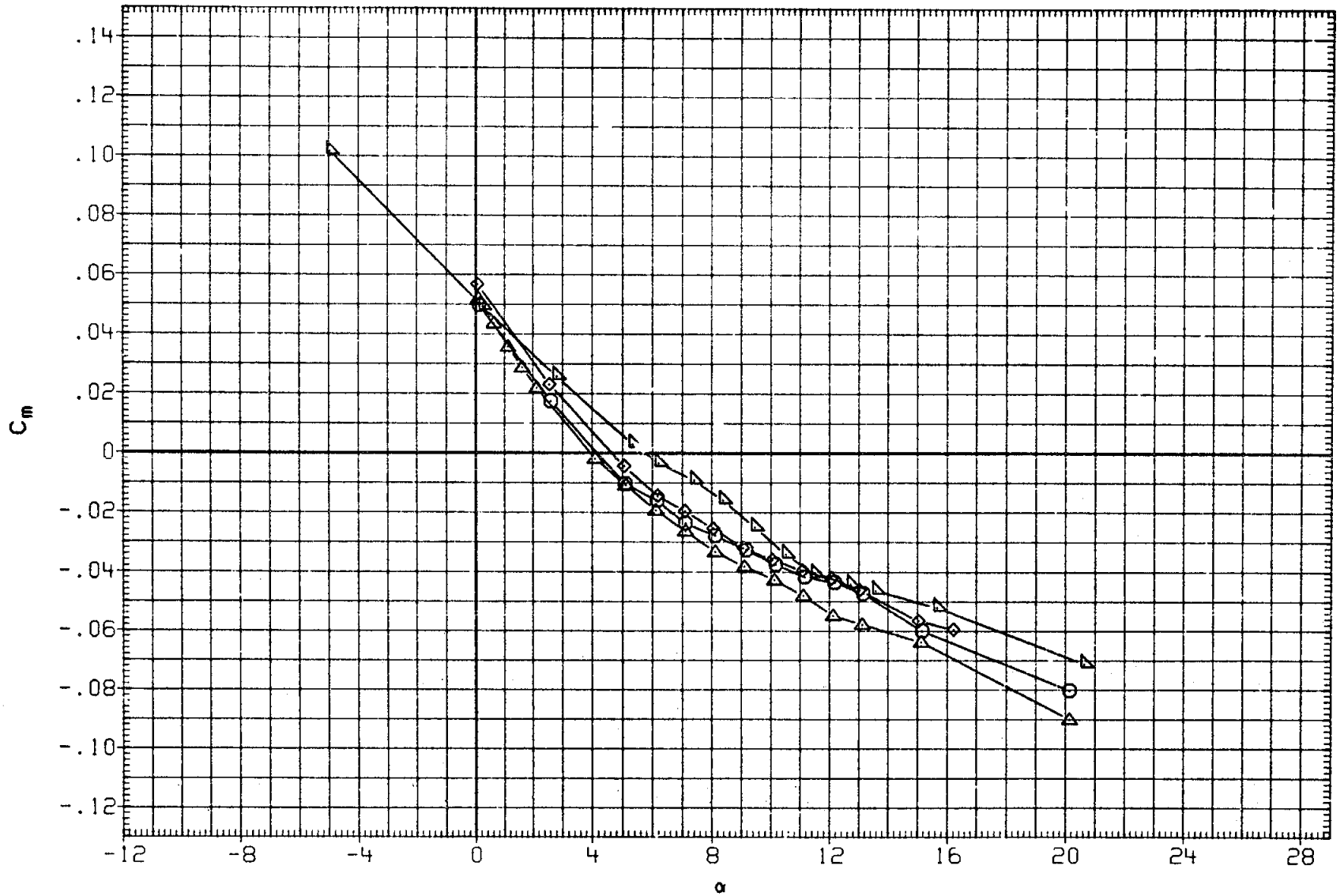

FIGURE 18. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK=0 AND 25 DEG.

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	DATA NOT AVAILABLE	.000	.000	.000	.000	.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	△	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

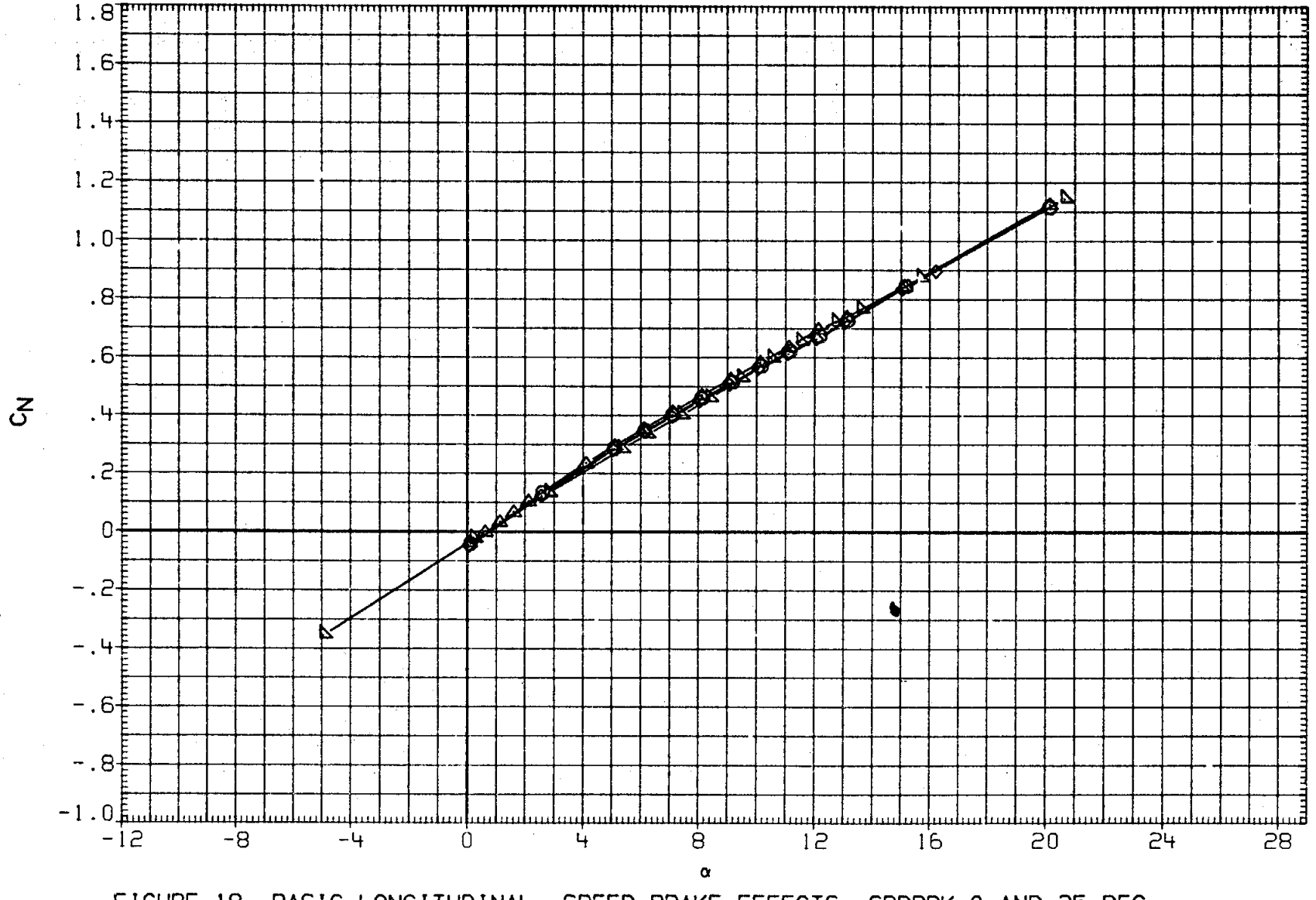

FIGURE 18. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK=0 AND 25 DEG.

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	DATA NOT AVAILABLE	.000	.000	.000	.000	.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	△	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◺	AMES 118-1-11 CA145A 01	.000	.000	.000	.000	25.000	.000	

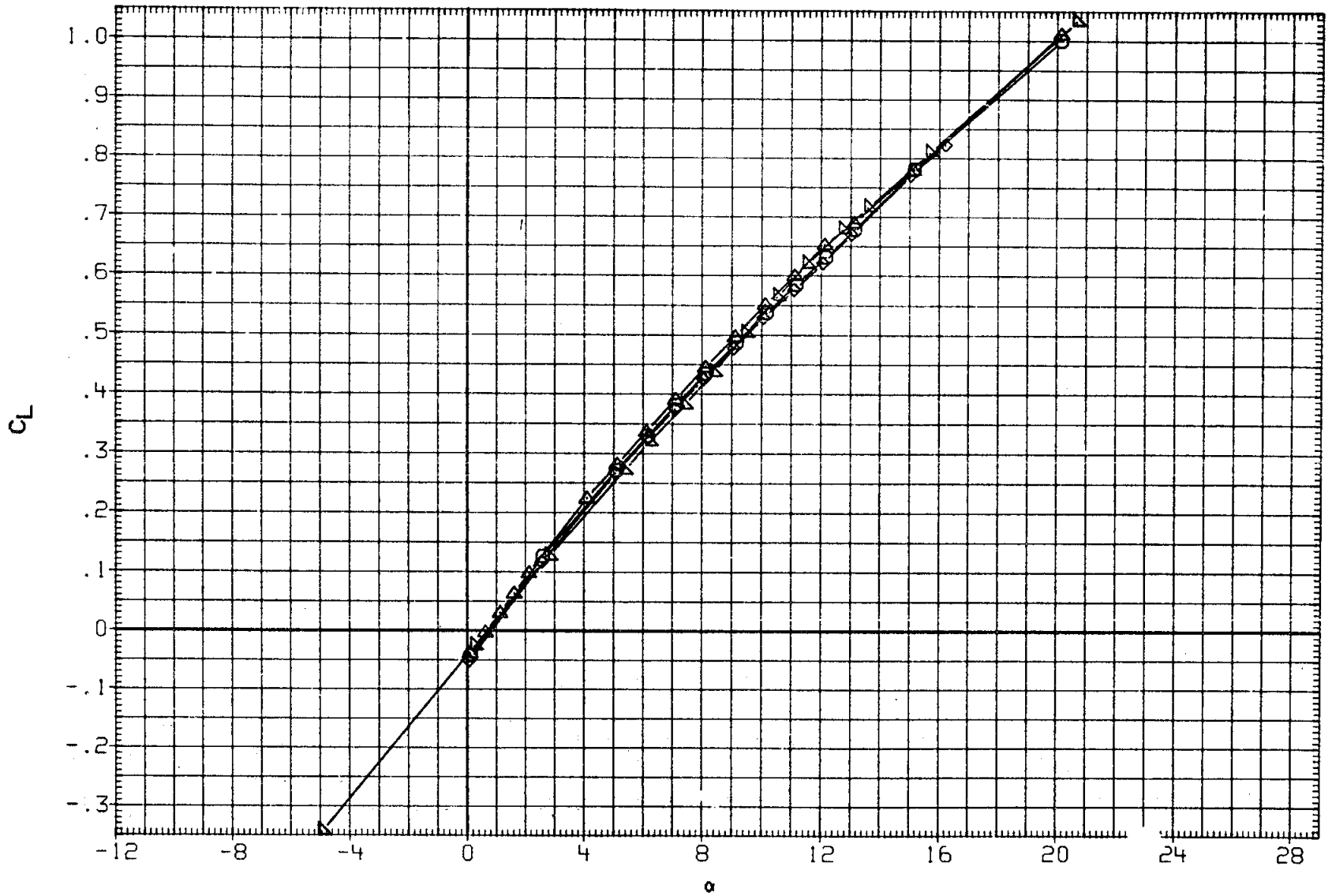

FIGURE 18. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK=0 AND 25 DEG.

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	DATA NOT AVAILABLE	.000	.000	.000	.000	.000	.000	
RK0003	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	△	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◺	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	25.000	.000	

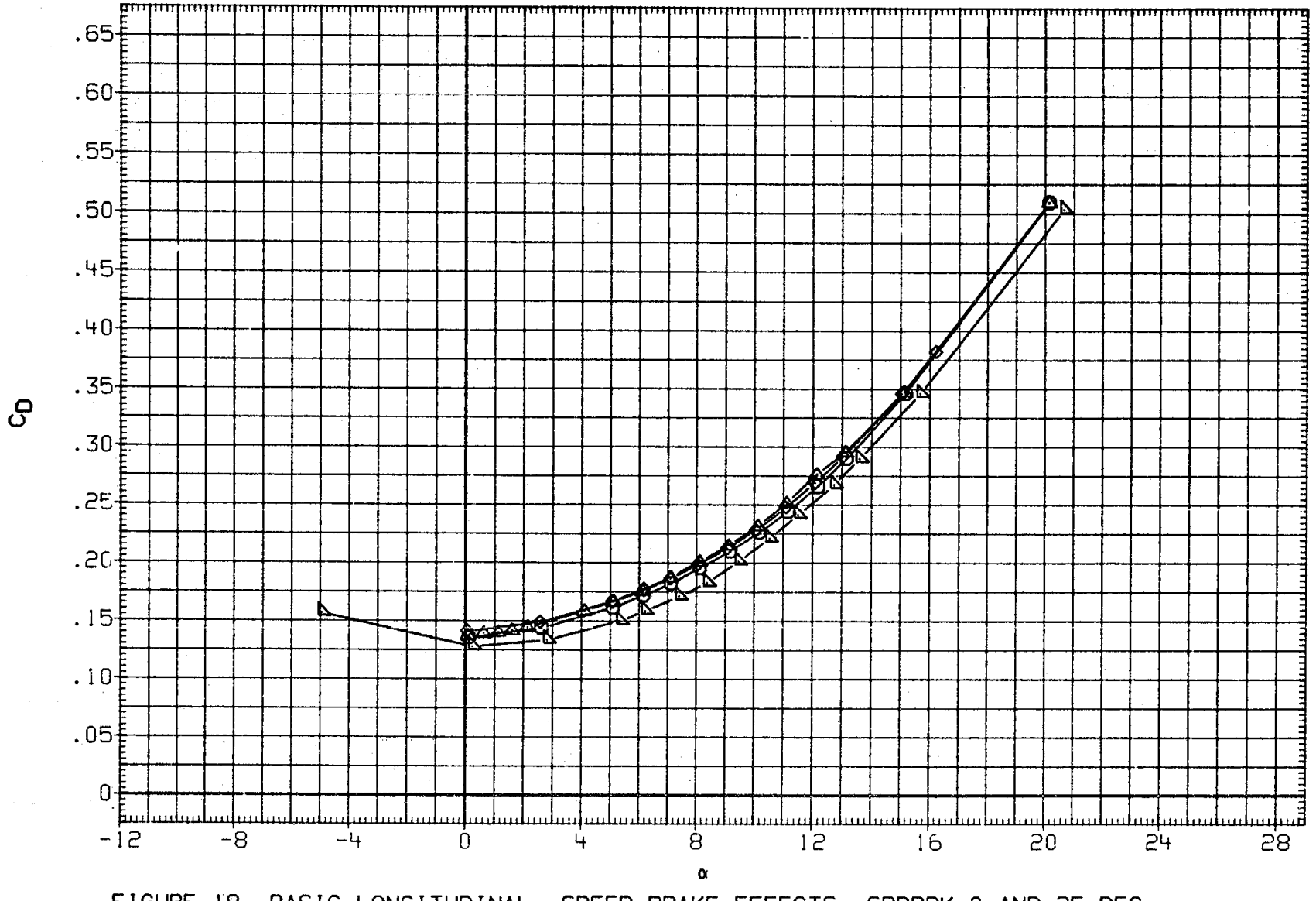

FIGURE 18. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK=0 AND 25 DEG.

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	DATA NOT AVAILABLE	.000	.000	.000	.000	.000	.000	
RK0003	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	△	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◺	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	25.000	.000	

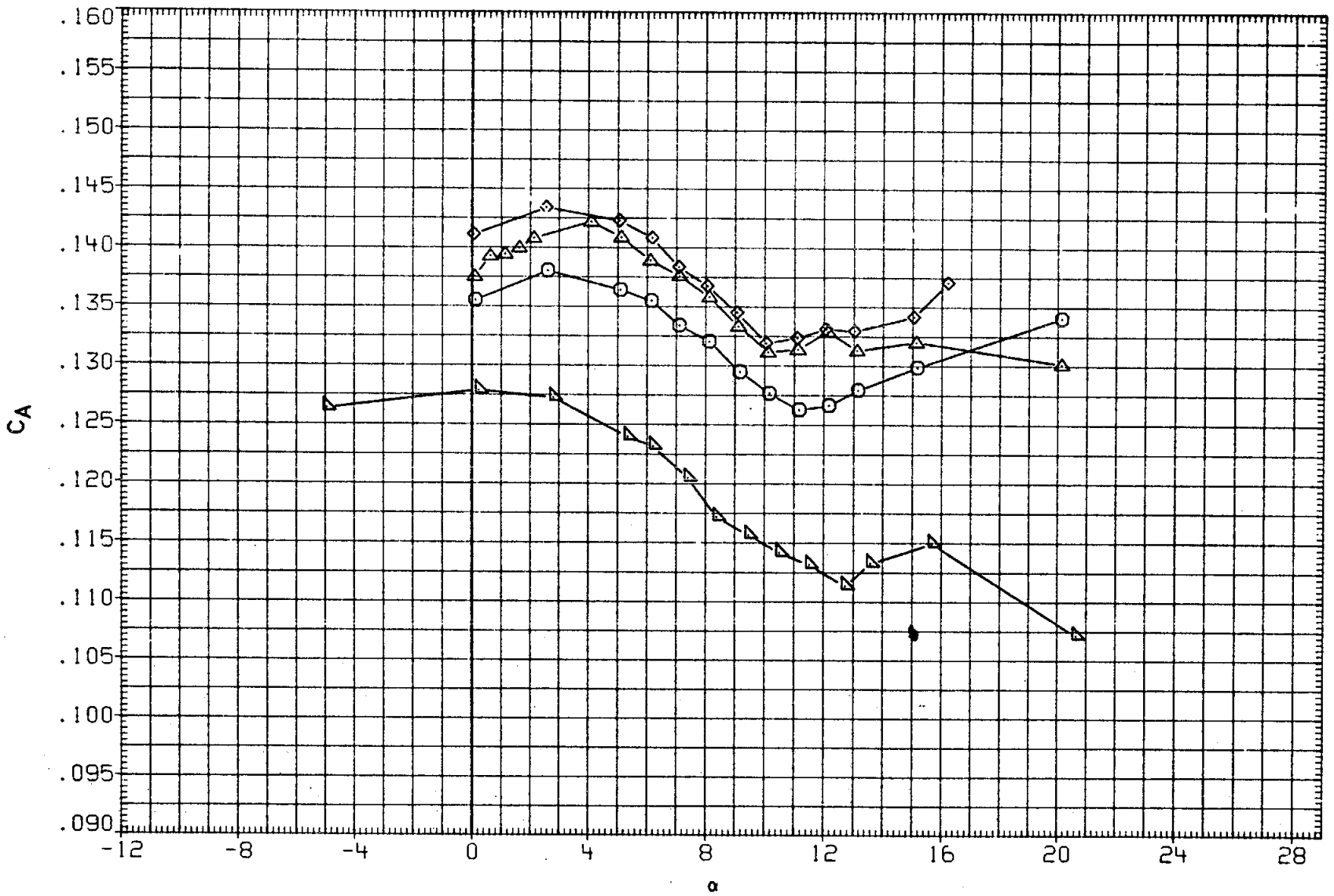

FIGURE 18. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK=0 AND 25 DEG.

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	△	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

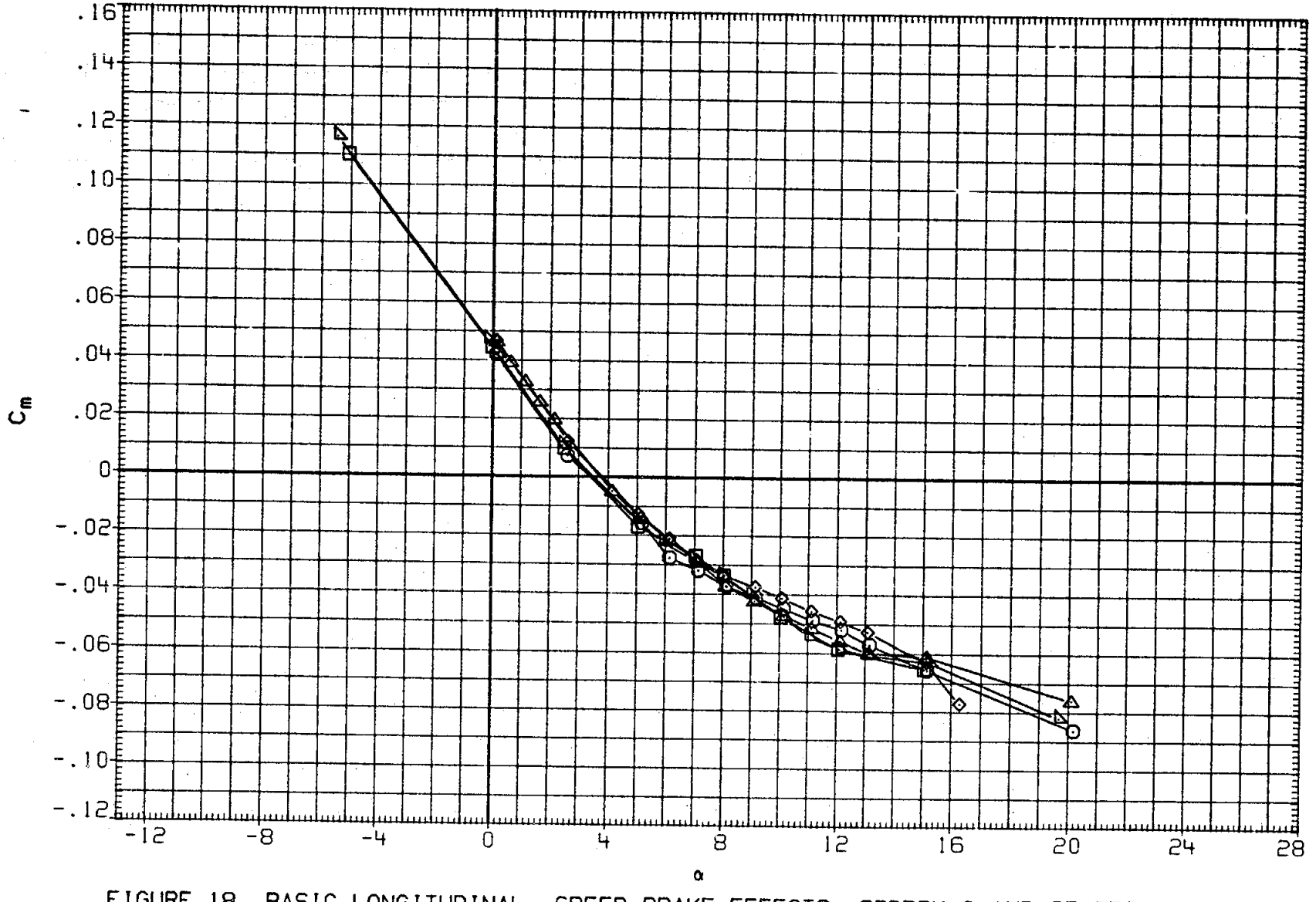

FIGURE 18. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK=0 AND 25 DEG.

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	△	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

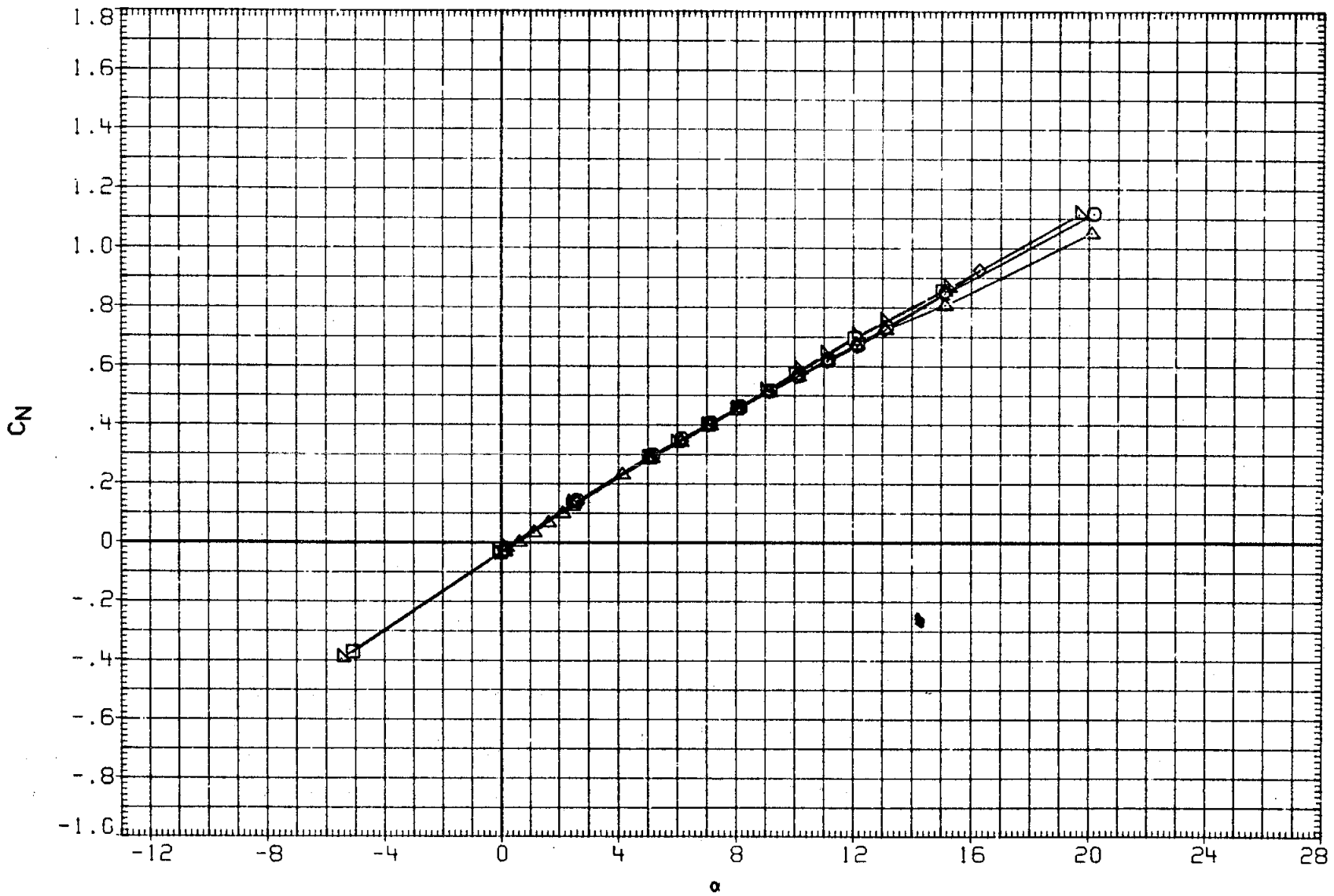

FIGURE 18. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK=0 AND 25 DEG.

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	△	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

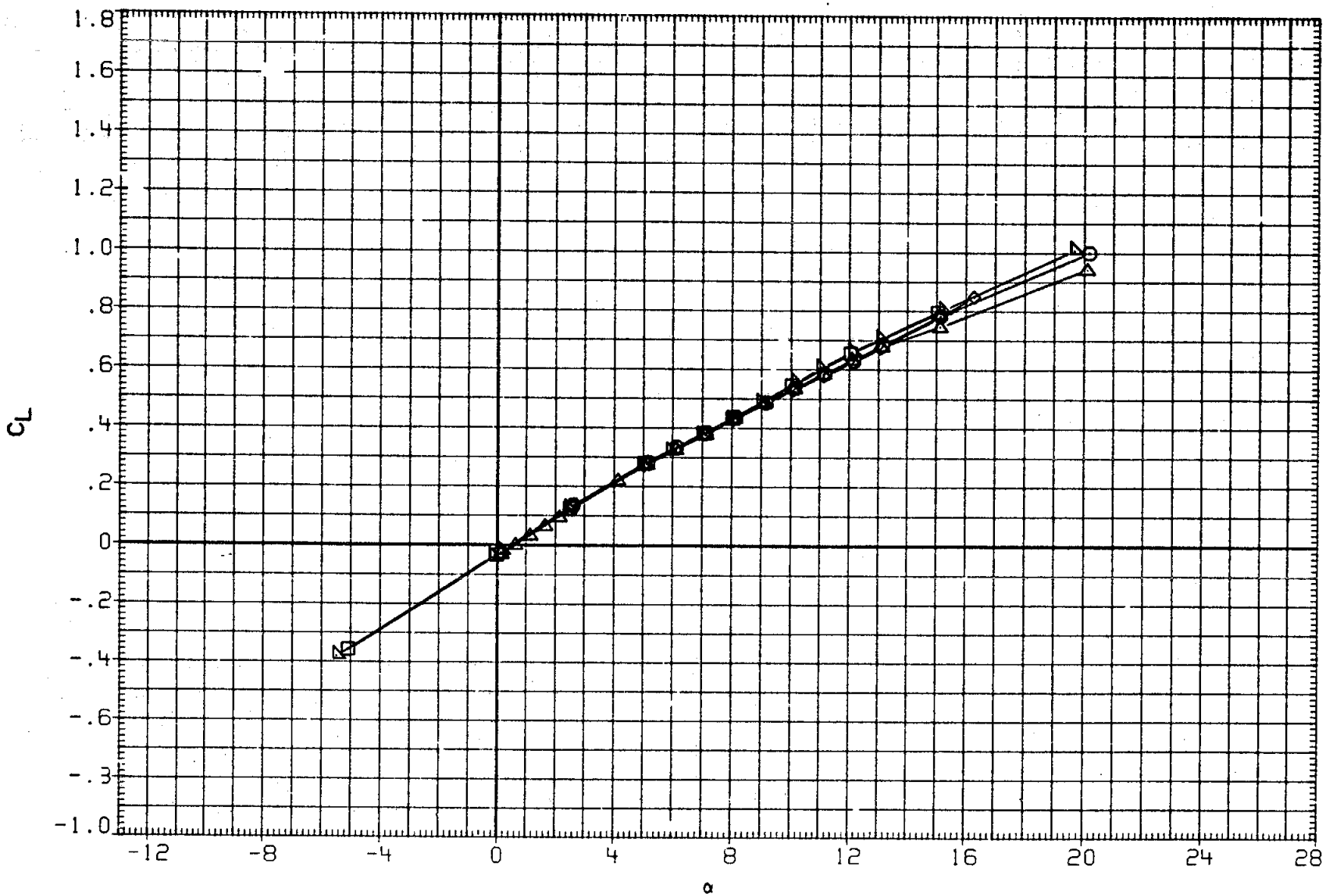

FIGURE 18. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK=0 AND 25 DEG.

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	△	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

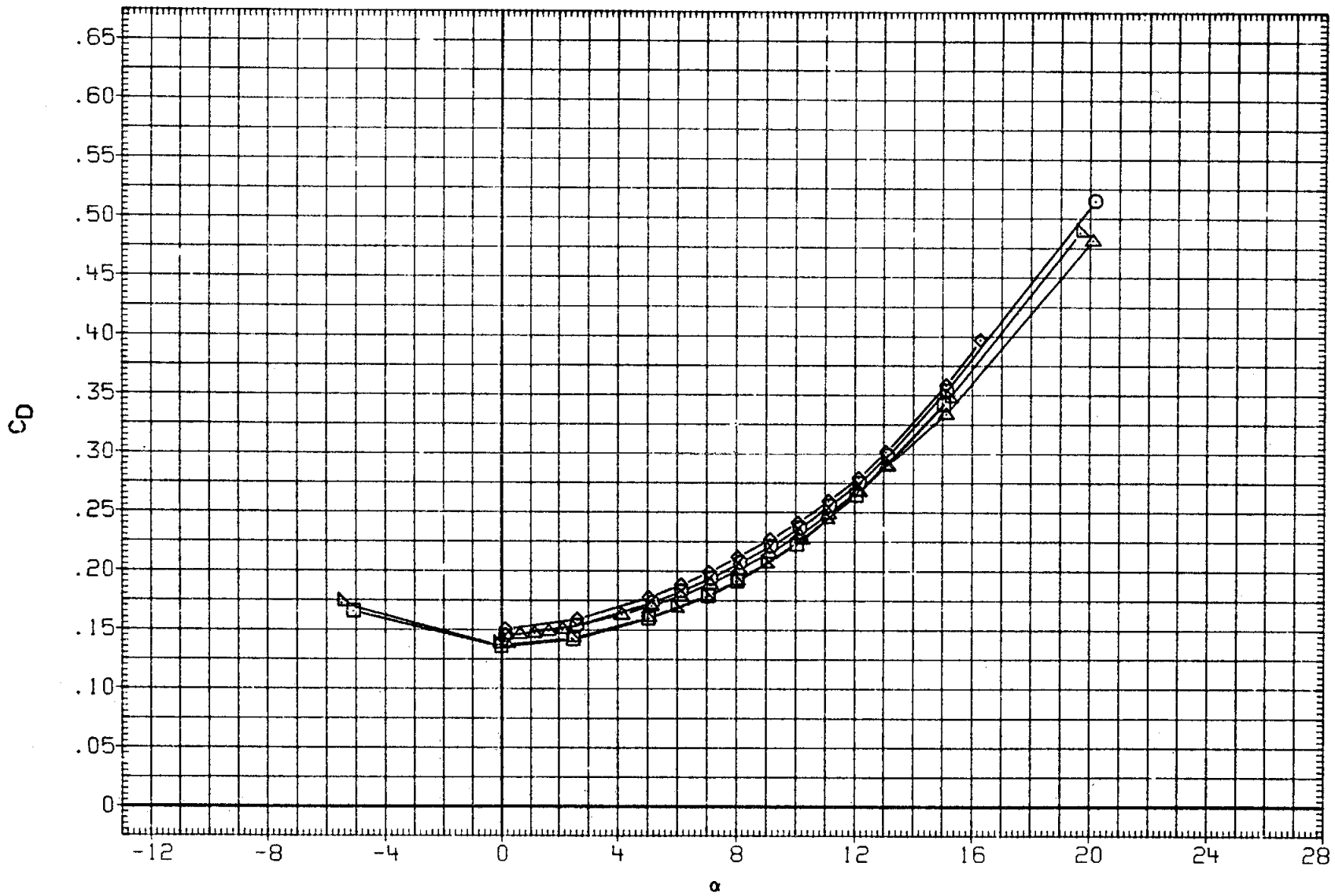

FIGURE 18. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK=0 AND 25 DEG.

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	△	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

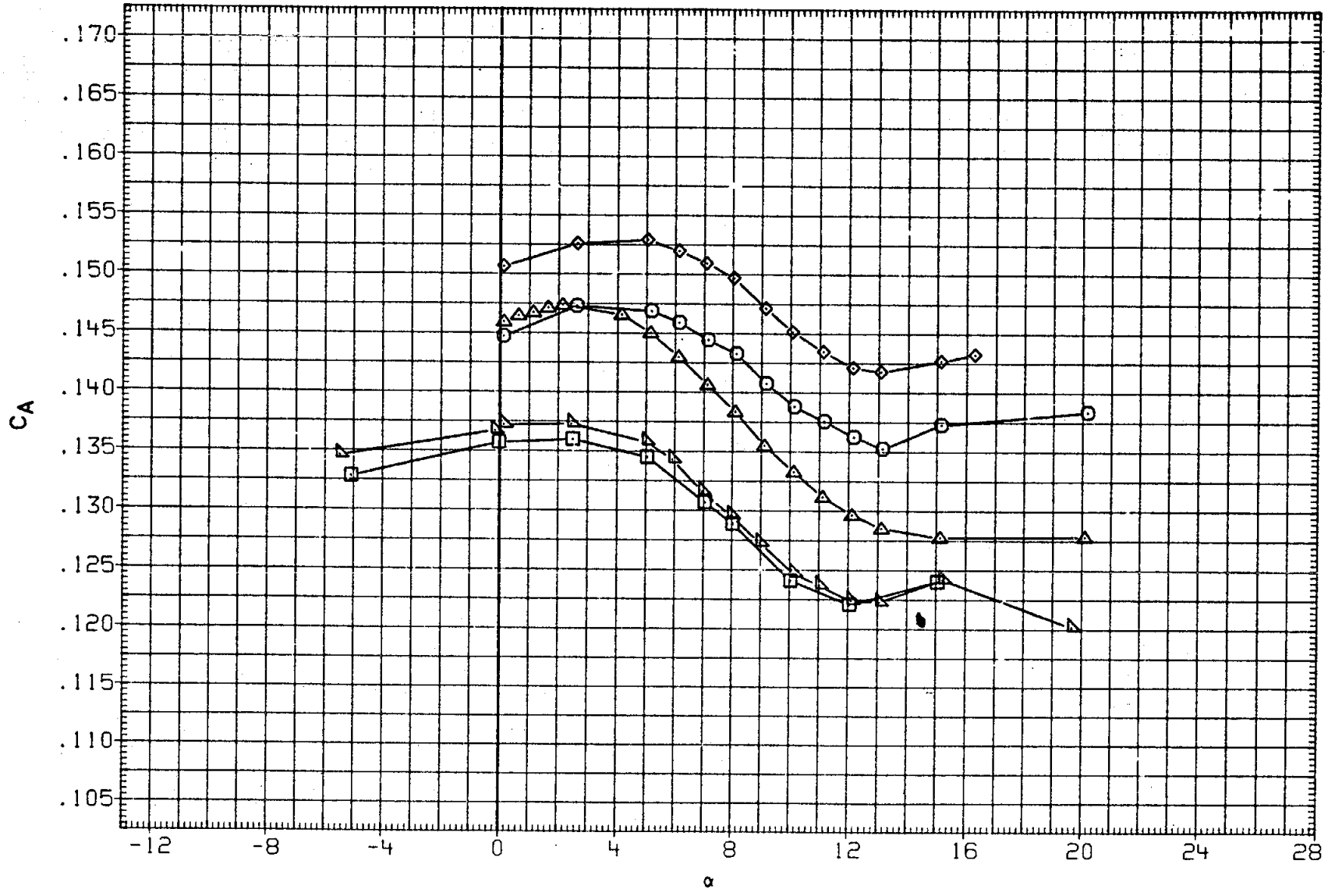

FIGURE 18. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK=0 AND 25 DEG.

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	AMES 11B-1-11 0A145A 01	.000	.000	.000	.000	.000	.000	
RK0003	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	△	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◺	AMES 11B-1-11 0A145A 01	.000	.000	.000	.000	25.000	.000	

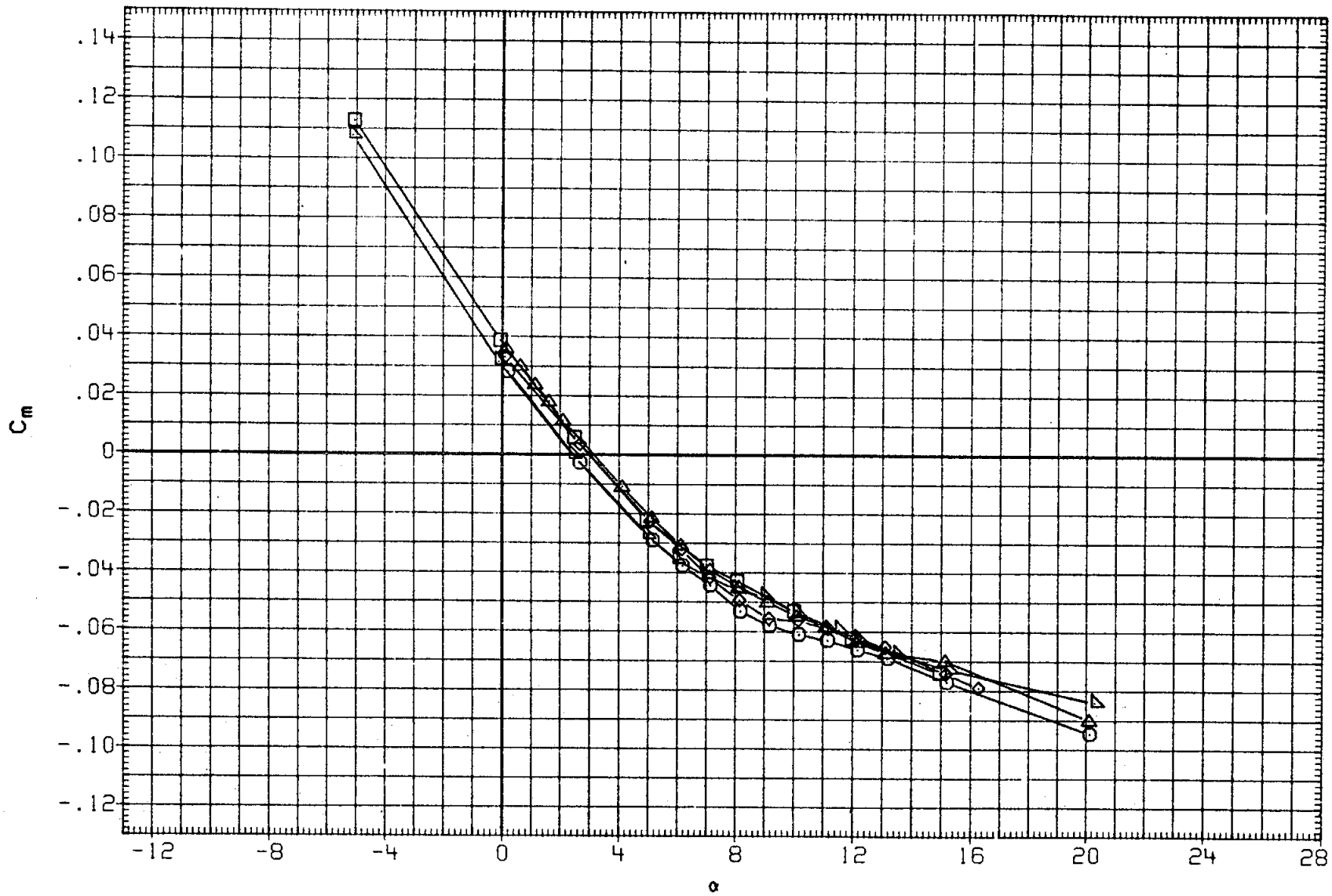

FIGURE 18. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK=0 AND 25 DEG.

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	△	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	▷	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

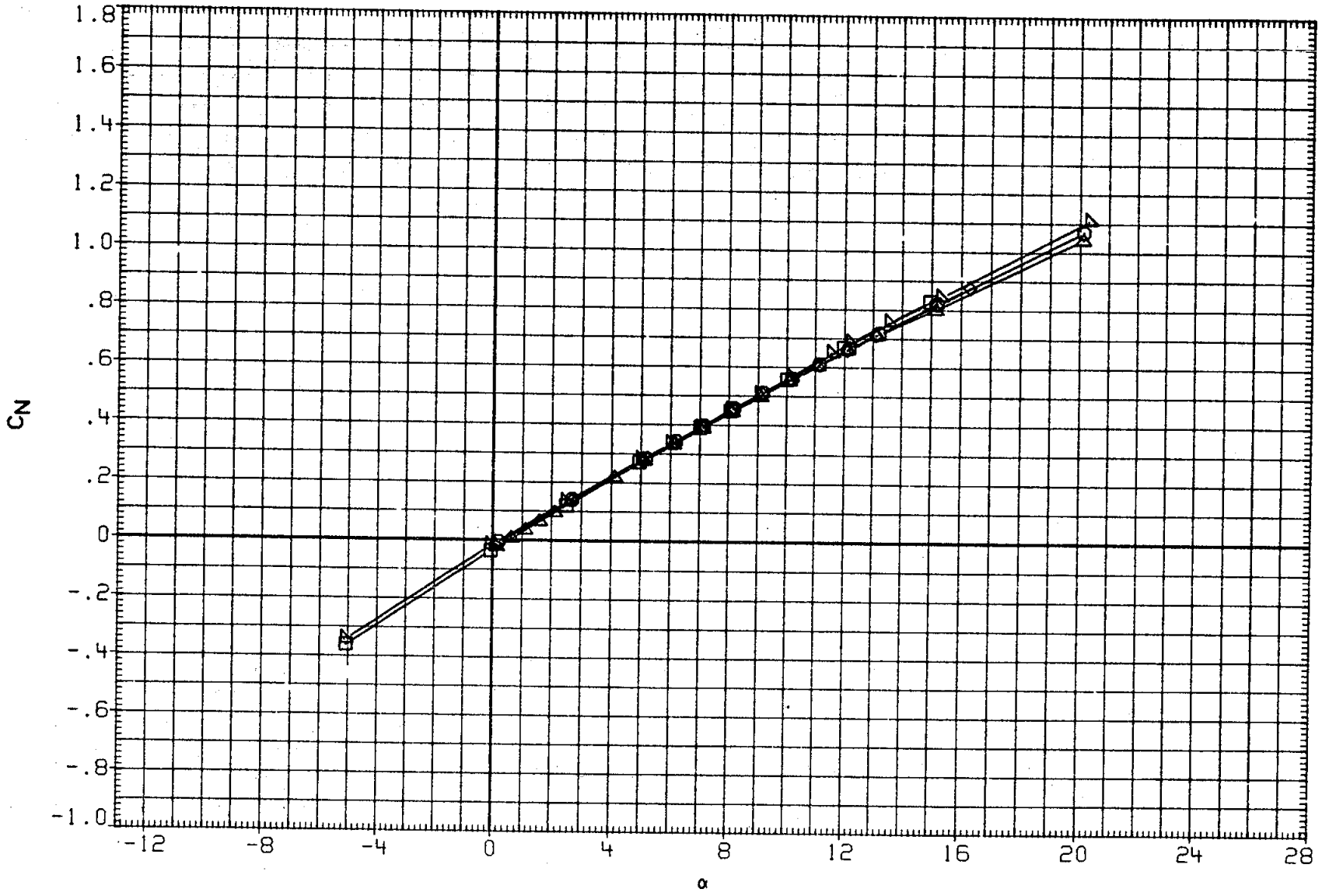

FIGURE 18. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK=0 AND 25 DEG.

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	△	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

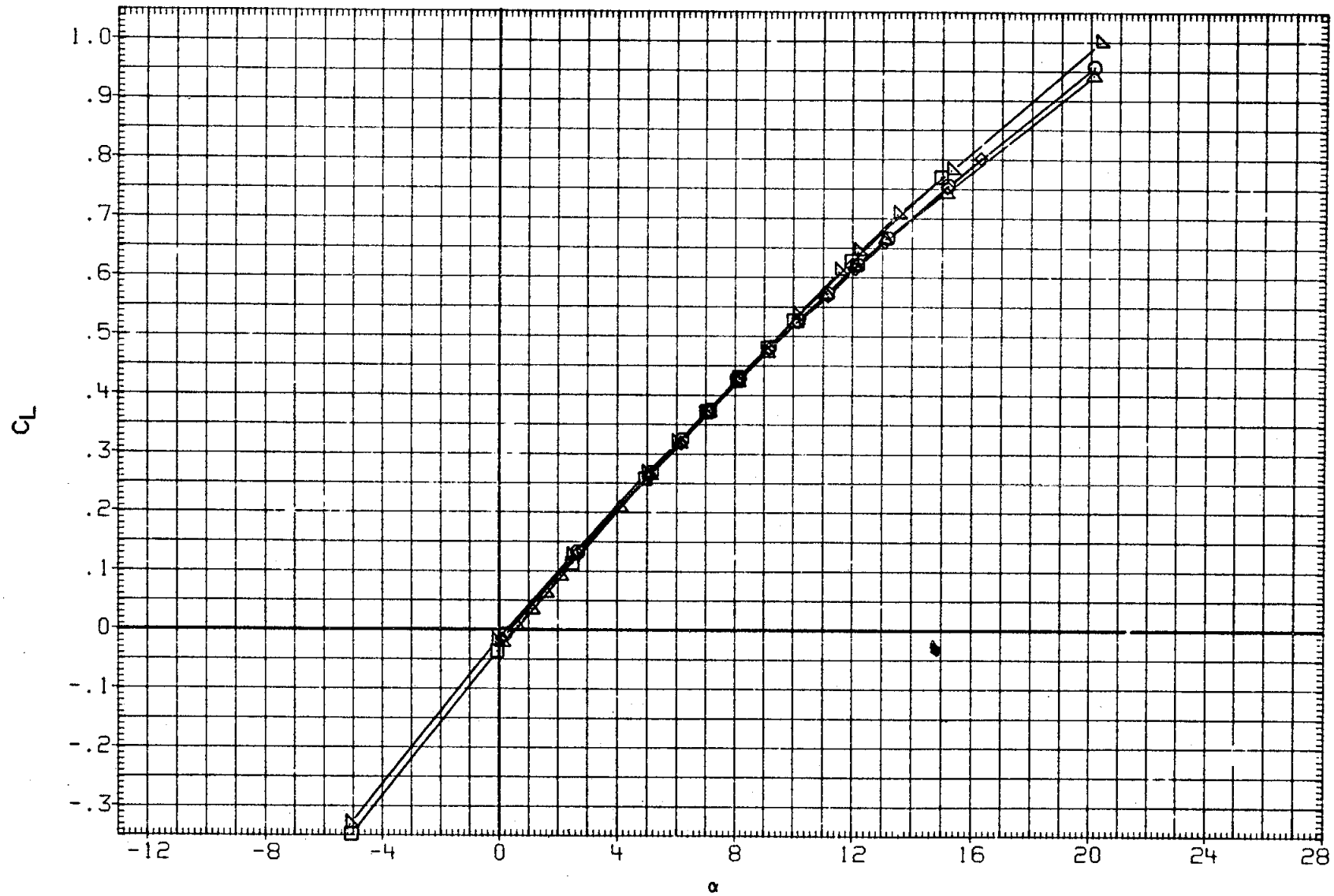

FIGURE 18. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK=0 AND 25 DEG.

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	△	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

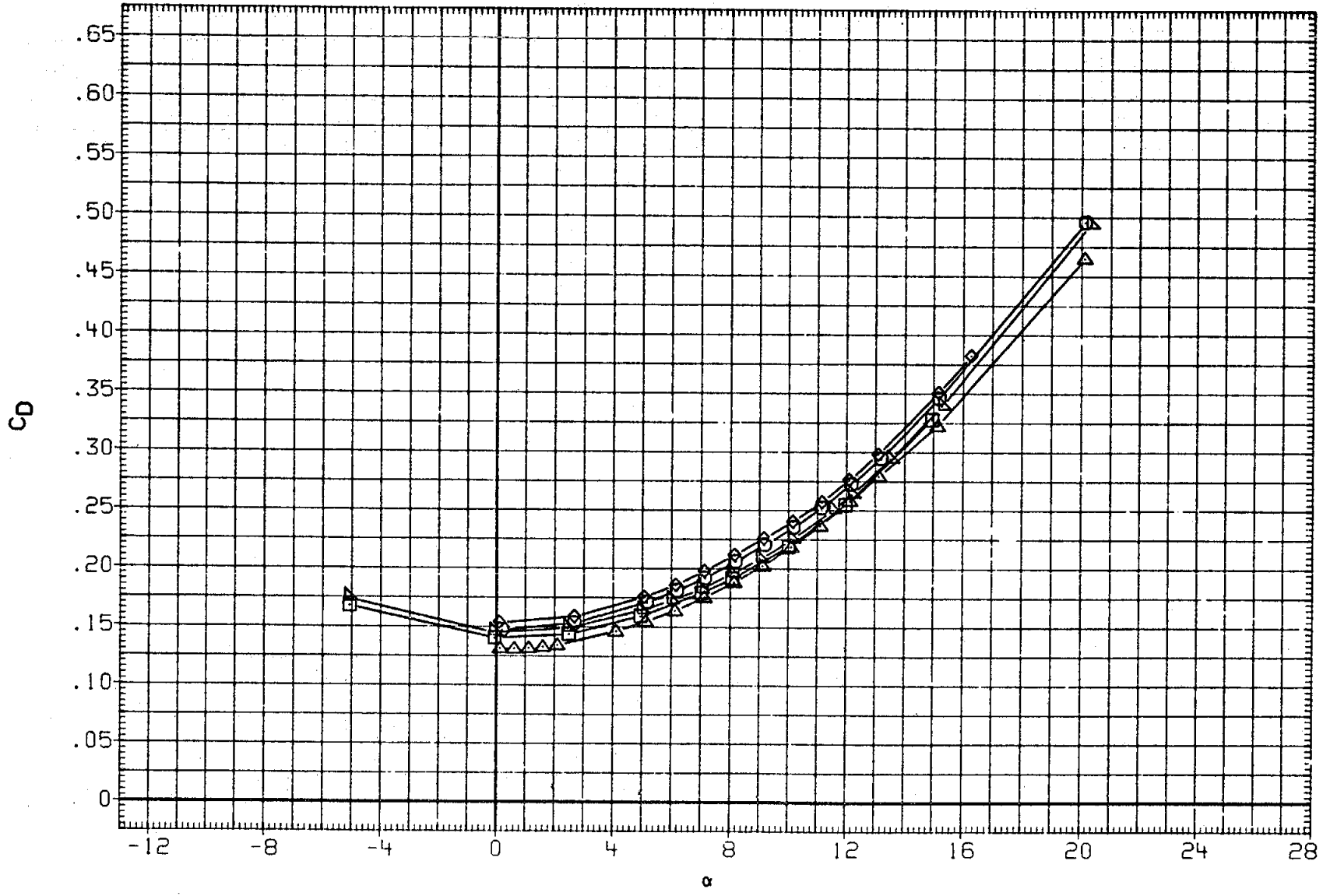

FIGURE 18. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK=0 AND 25 DEG.

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	.000	.000	
RK0003	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	△	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◺	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	25.000	.000	

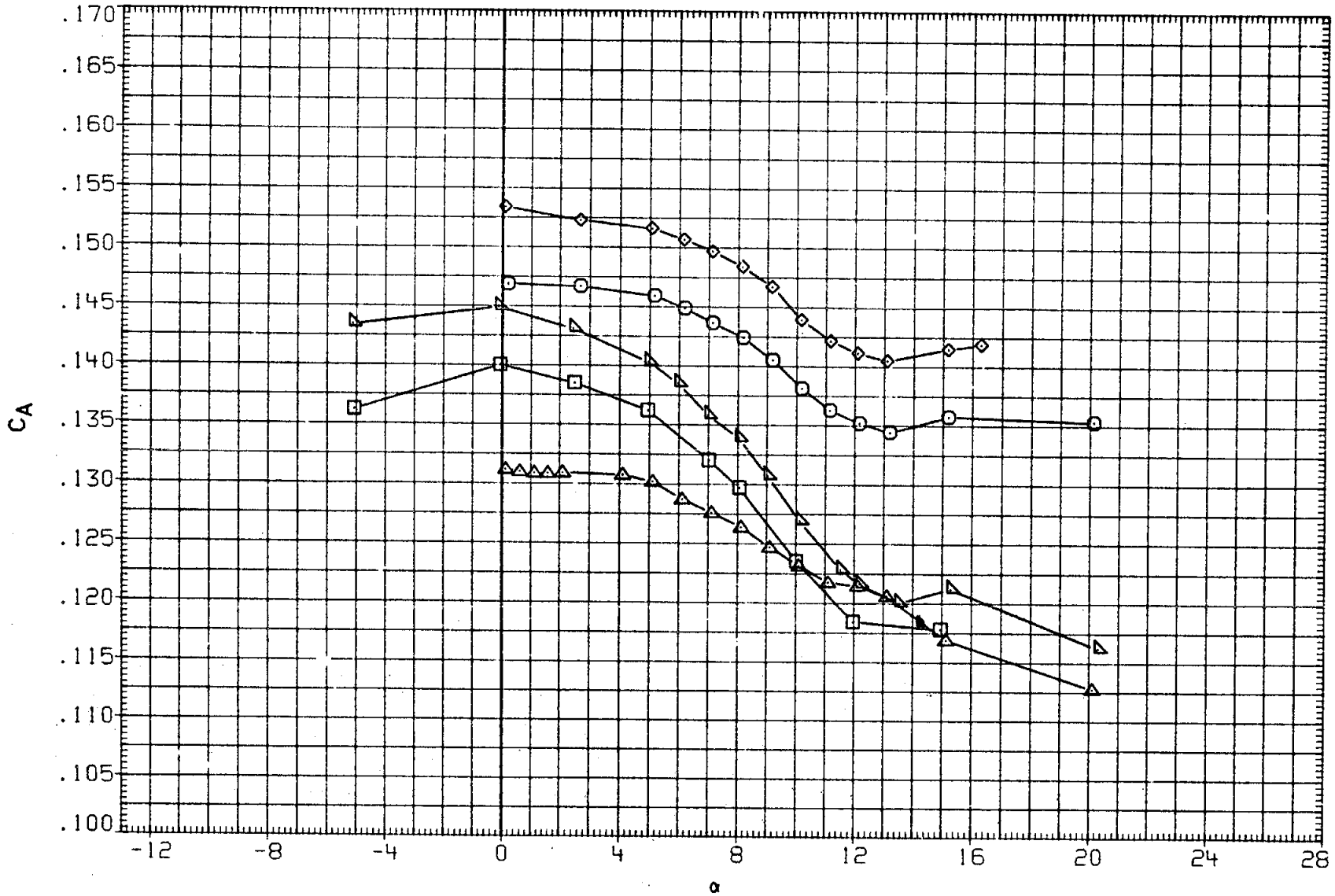

FIGURE 18. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK=0 AND 25 DEG.

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	DATA NOT AVAILABLE	.000	.000	.000	.000	.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	△	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

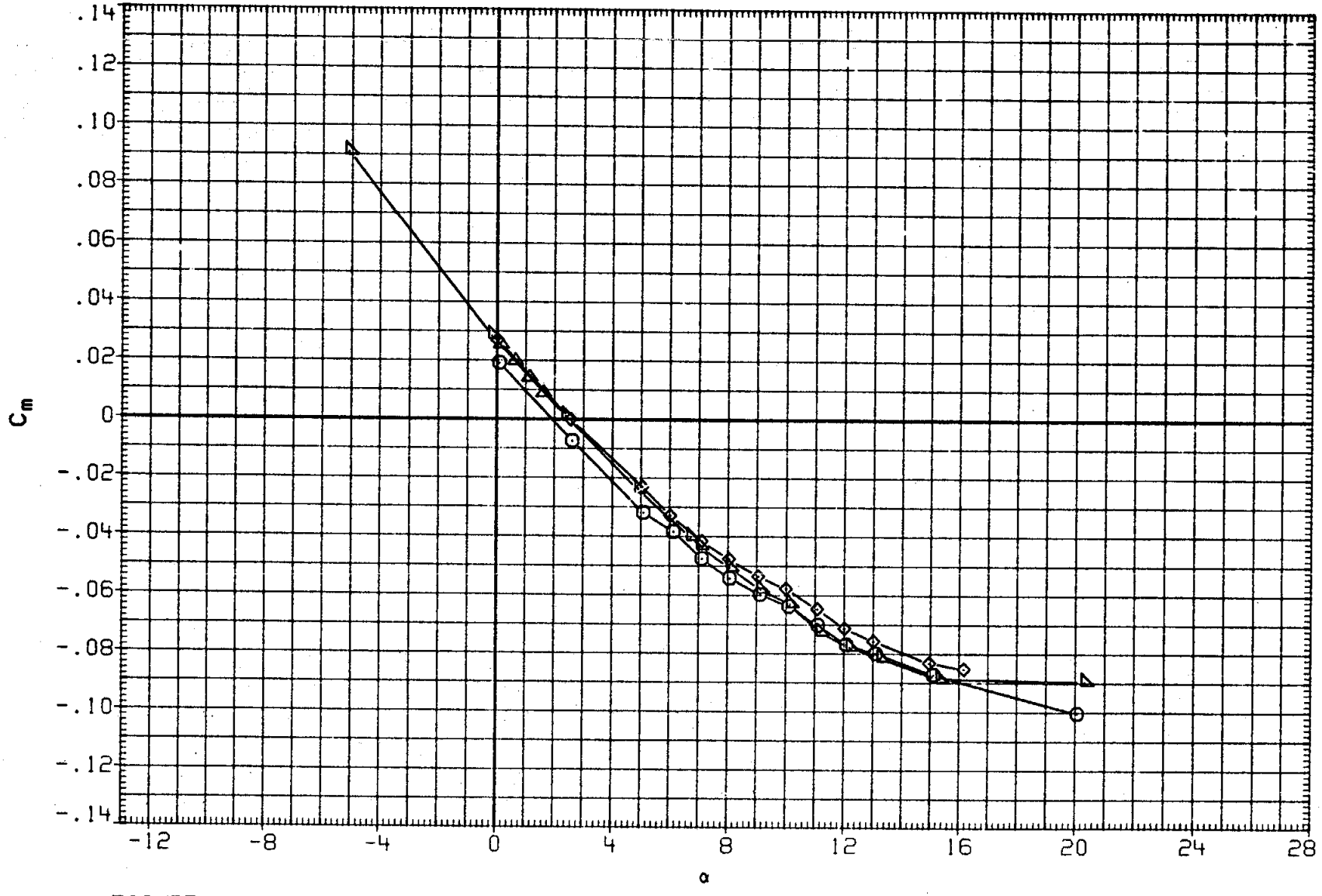

FIGURE 18. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK=0 AND 25 DEG.

(I)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	DATA NOT AVAILABLE	.000	.000	.000	.000	.000	.000	
RK0003	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	△	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◺	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	25.000	.000	

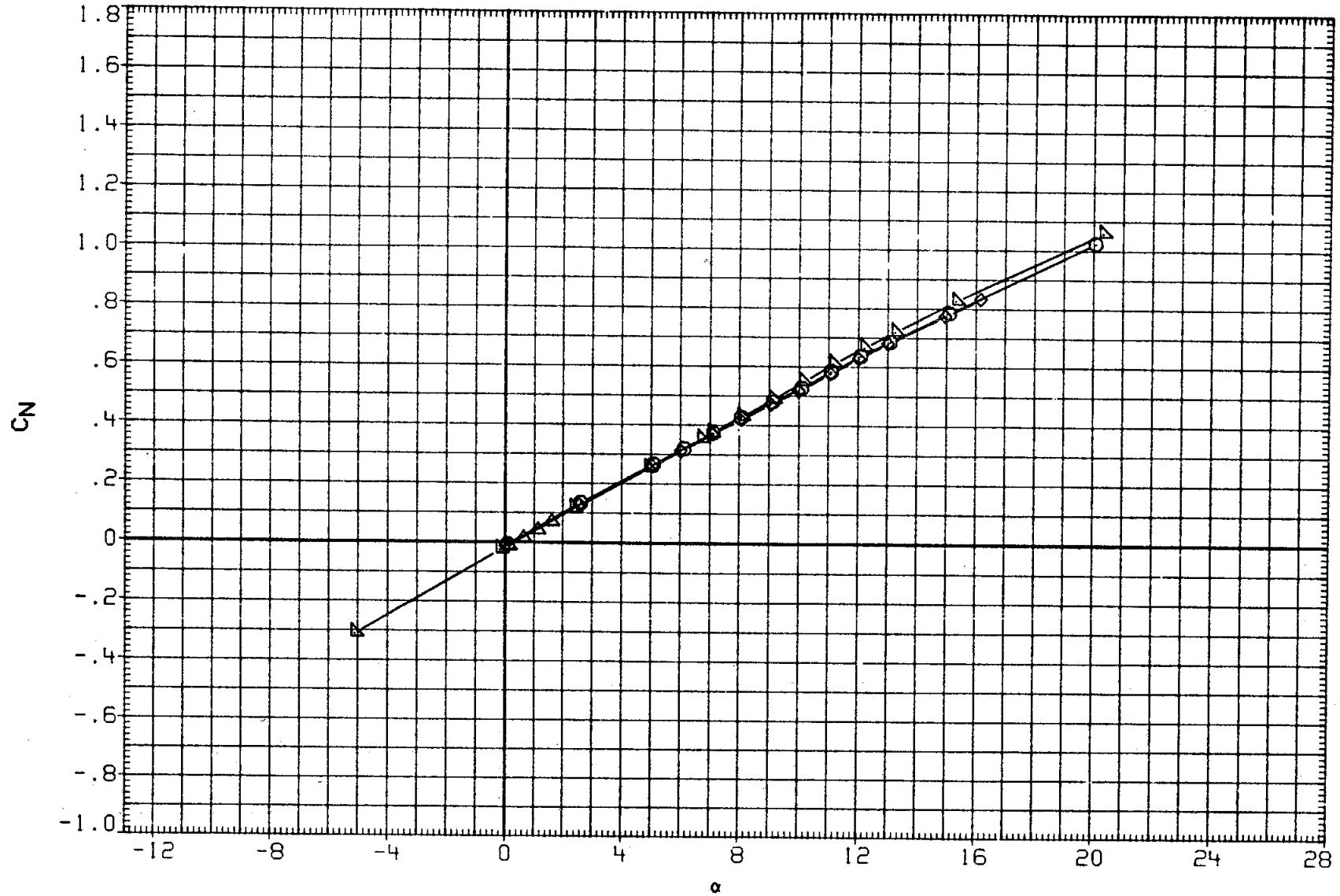

FIGURE 18. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK=0 AND 25 DEG.

(I)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	DATA NOT AVAILABLE	.000	.000	.000	.000	.000	.000	
RK0003	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	△	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◺	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	25.000	.000	

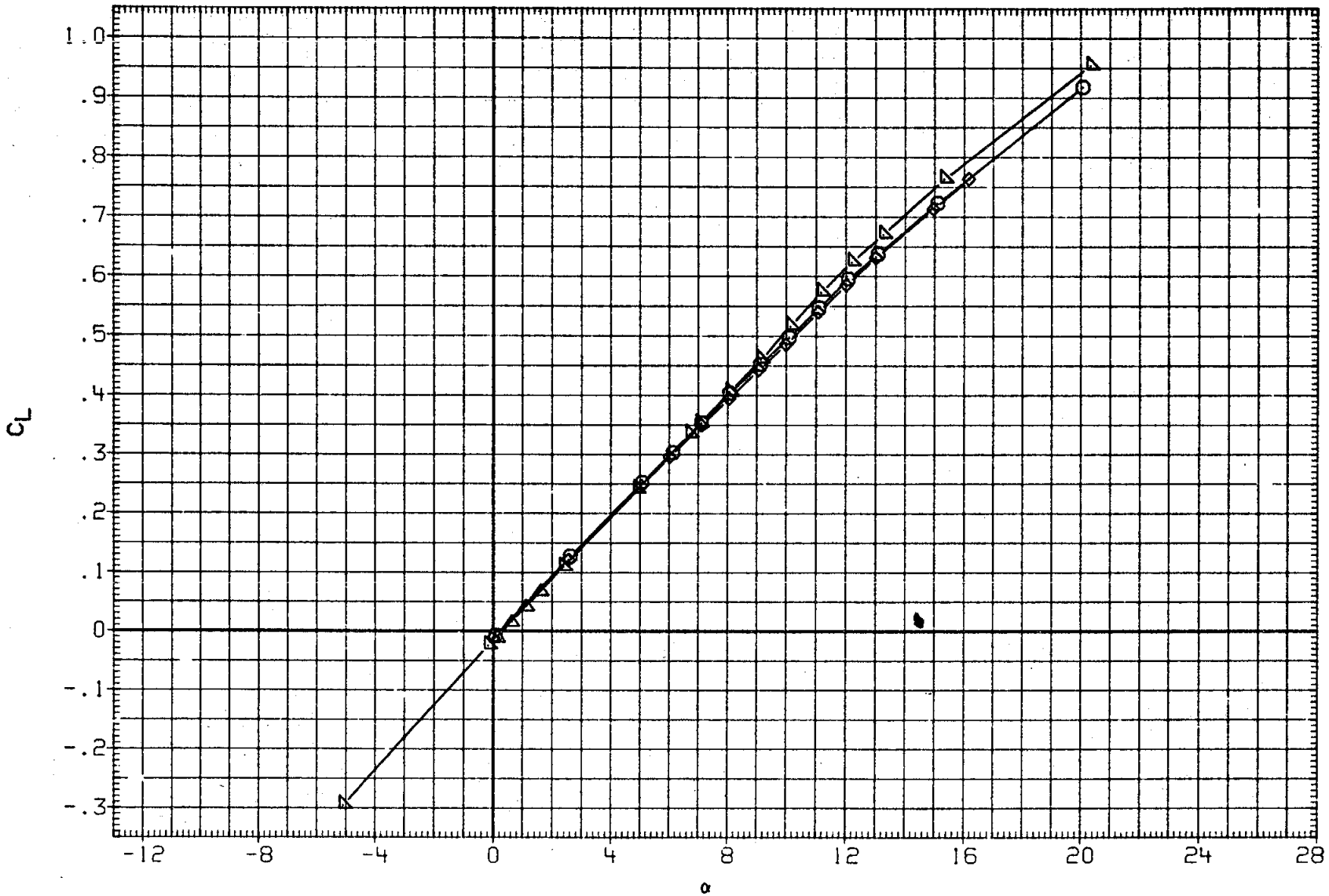

FIGURE 18. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK=0 AND 25 DEG.

(I)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F079	□	DATA NOT AVAILABLE	.000	.000	.000	.000	.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	△	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

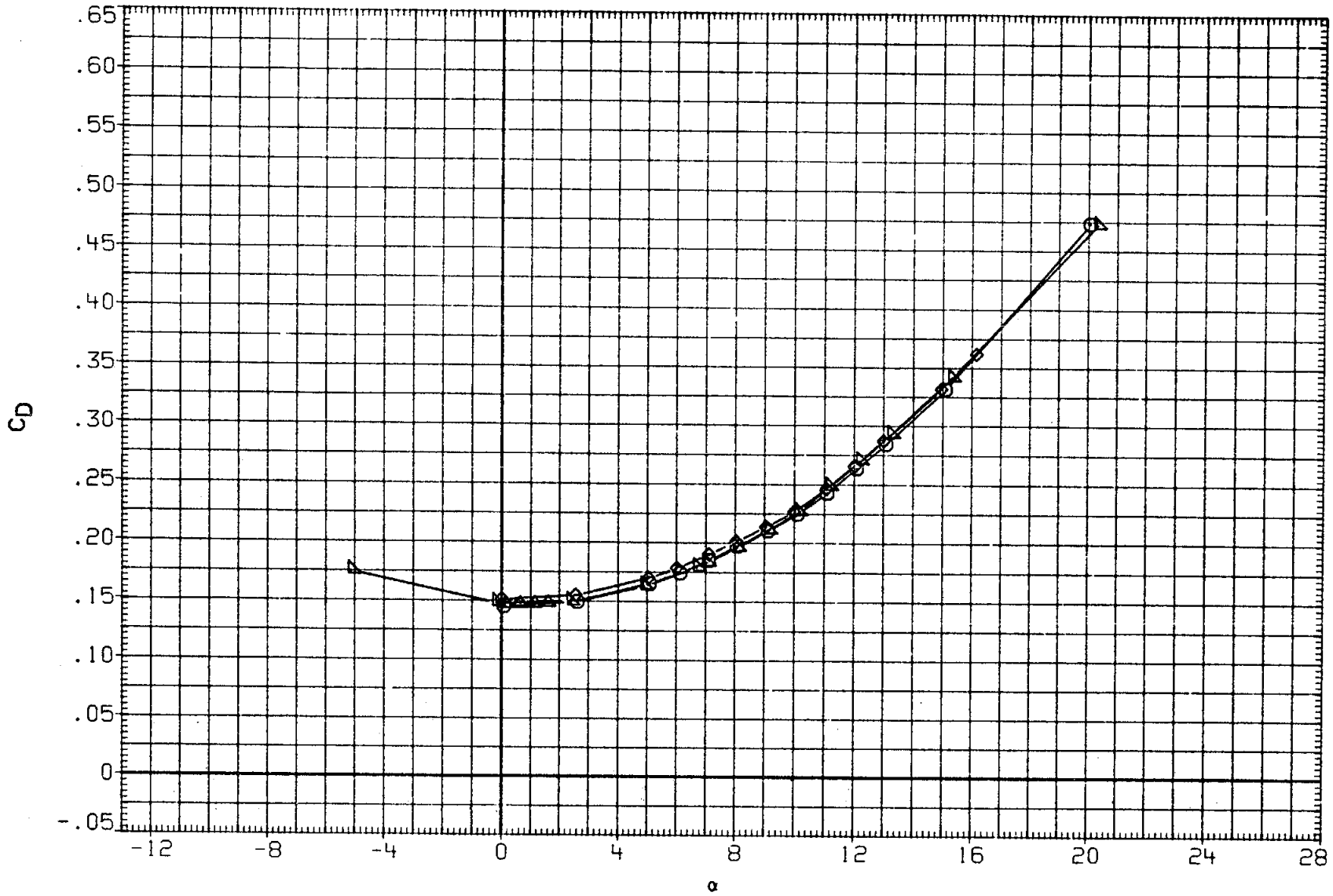

FIGURE 18. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK=0 AND 25 DEG.

(I)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	DATA NOT AVAILABLE	.000	.000	.000	.000	.000	.000	
RK0003	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	△	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

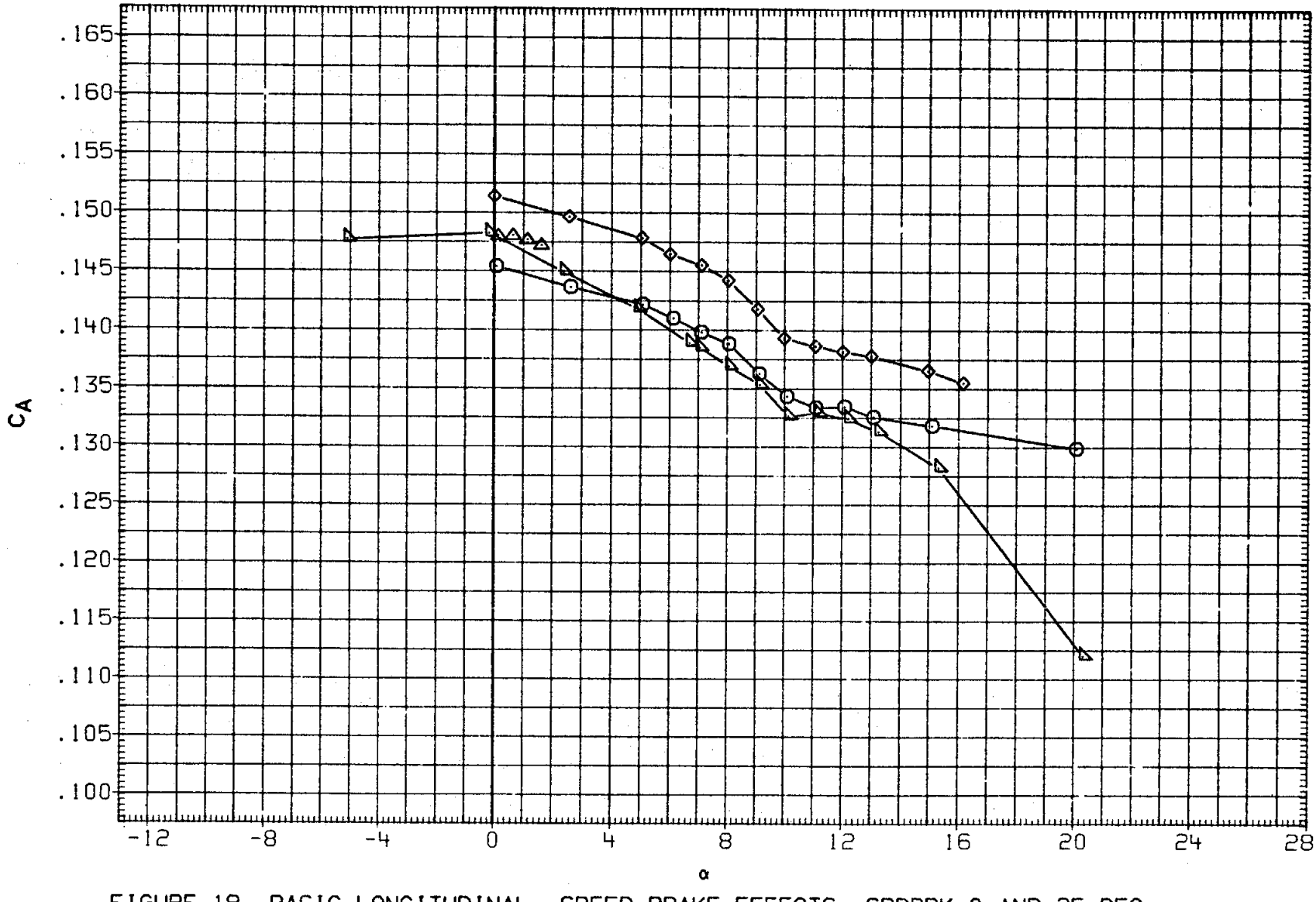

FIGURE 18. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK=0 AND 25 DEG.

(I)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	DATA NOT AVAILABLE	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	.000	.000	
RK0003	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN017	△	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

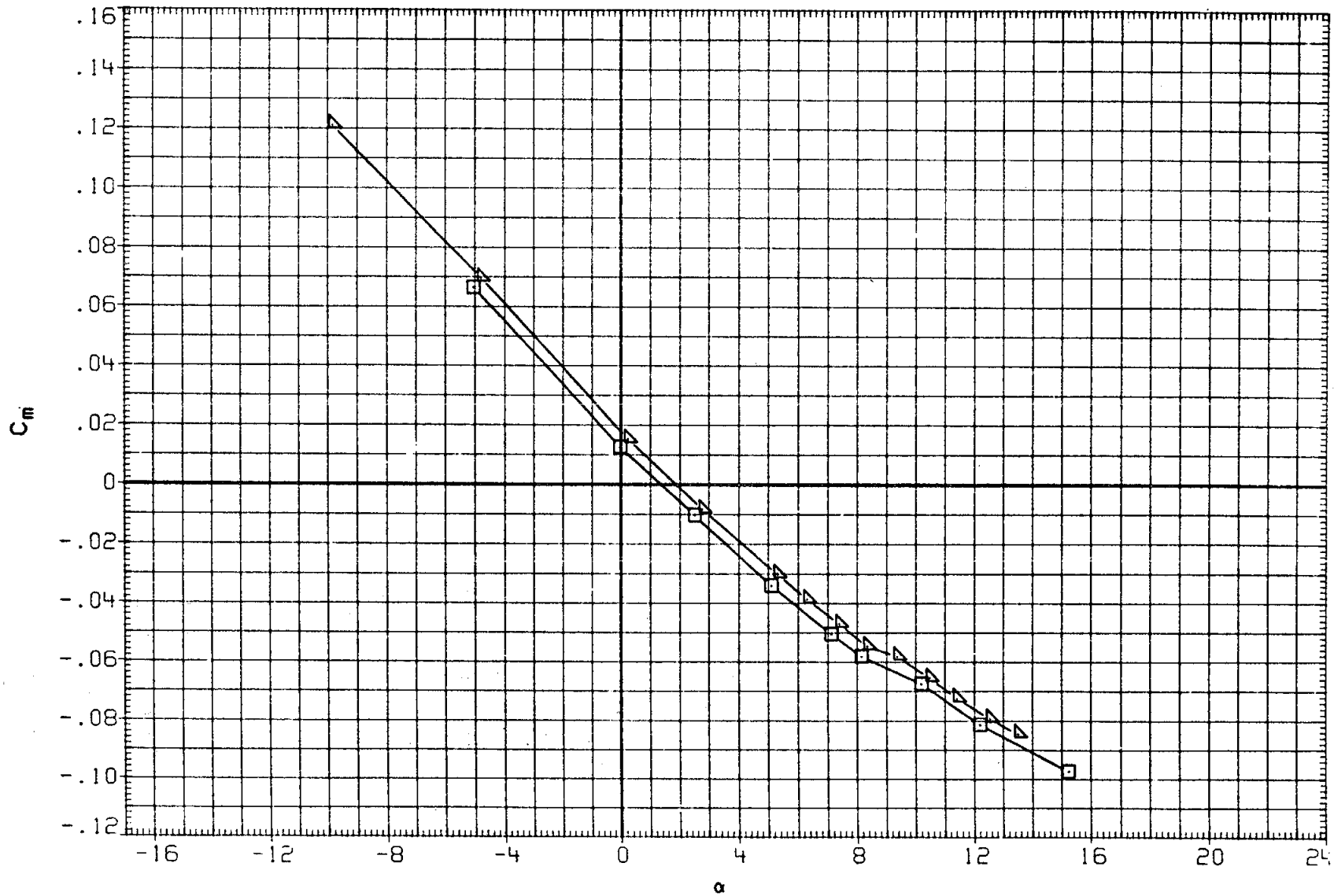

FIGURE 18. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK=0 AND 25 DEG.

(J)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	DATA NOT AVAILABLE	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	.000	.000	
RK0003	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN017	△	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

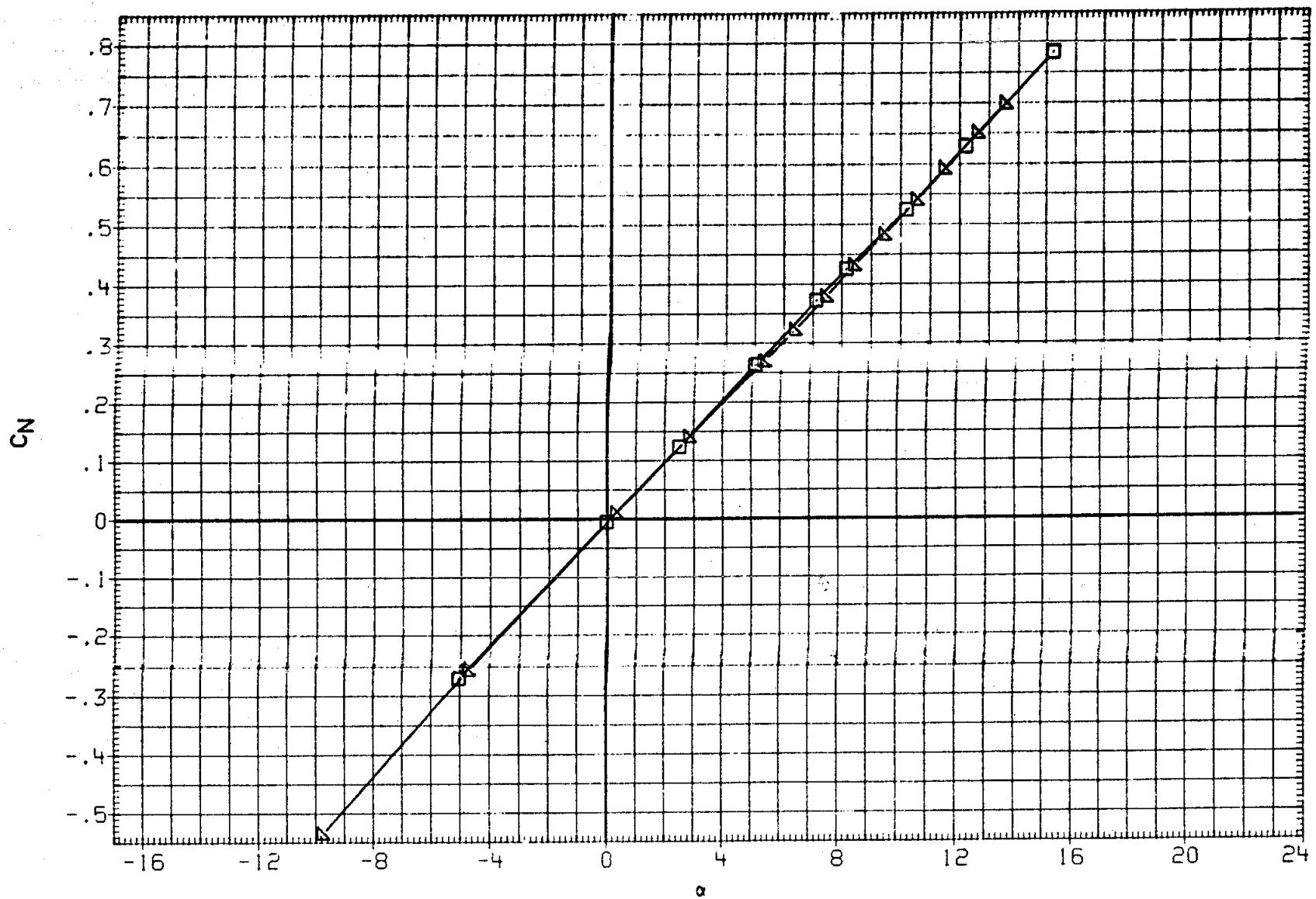

FIGURE 18. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK=0 AND 25 DEG.

(J)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	DATA NOT AVAILABLE	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	.000	.000	
RK0003	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN017	△	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

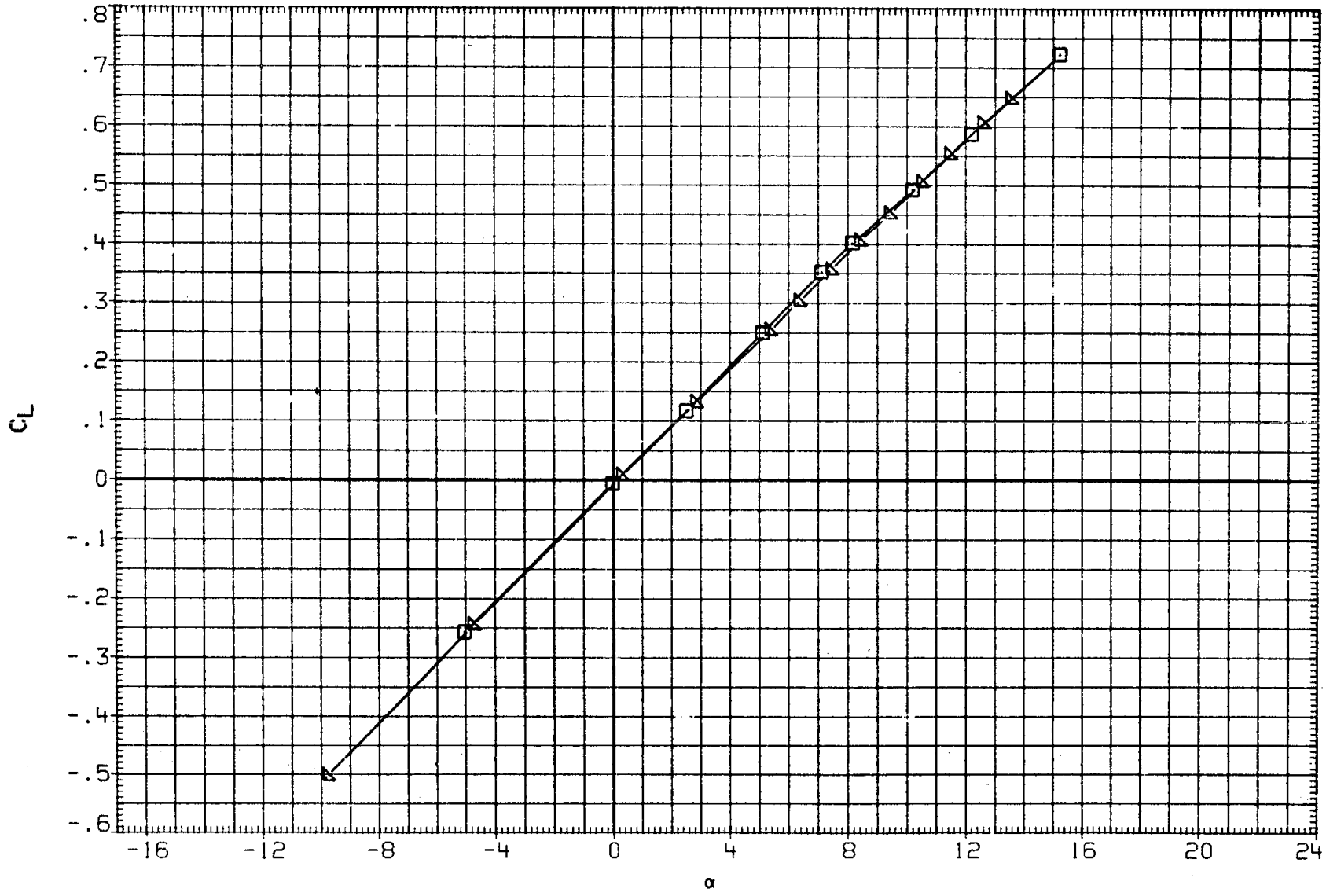

FIGURE 18. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK=0 AND 25 DEG.

(J)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	DATA NOT AVAILABLE	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	.000	.000	
RK0003	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN017	△	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◁	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

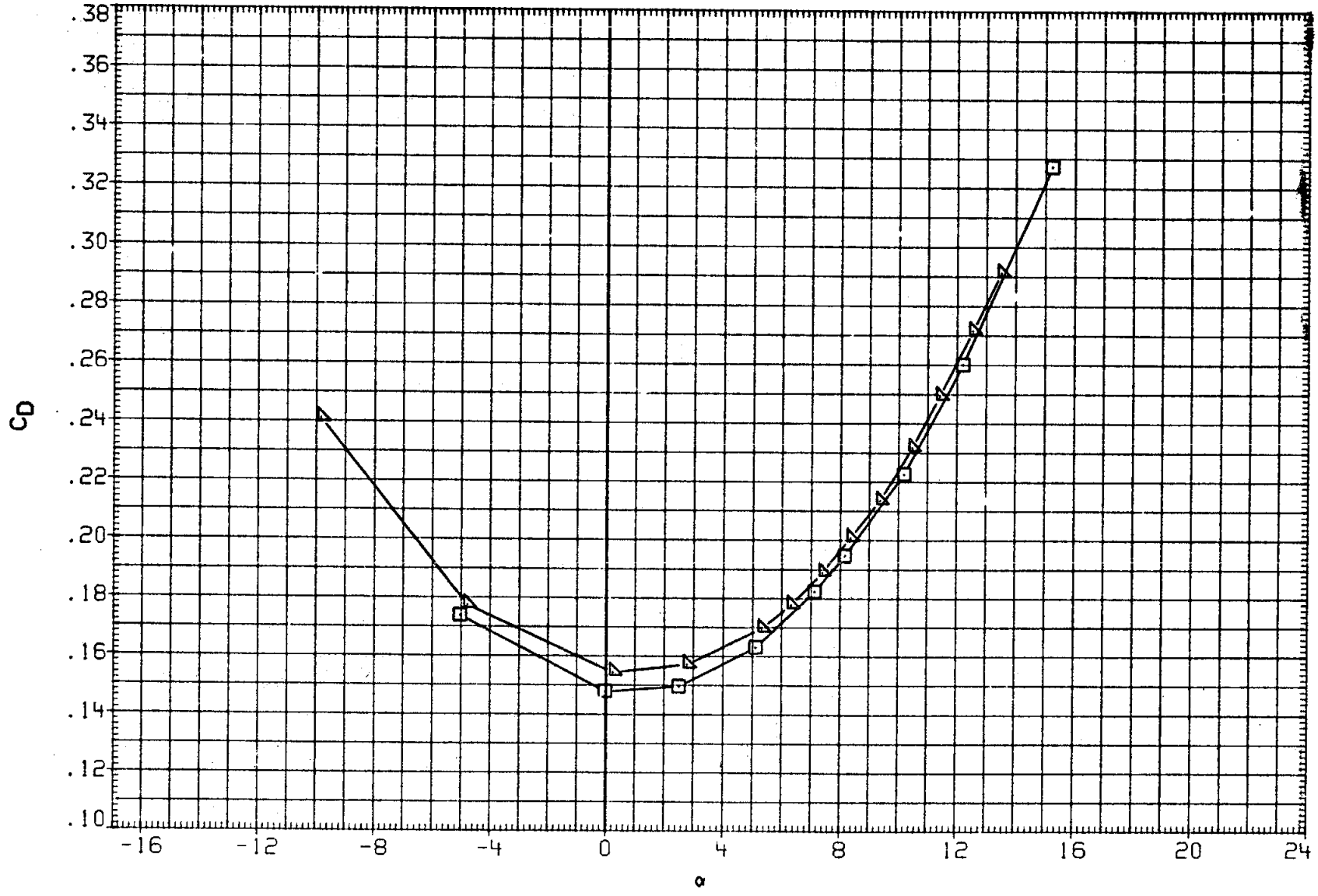

FIGURE 18. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK=0 AND 25 DEG.

(J)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	DATA NOT AVAILABLE	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	.000	.000	
RK0003	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN017	△	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	

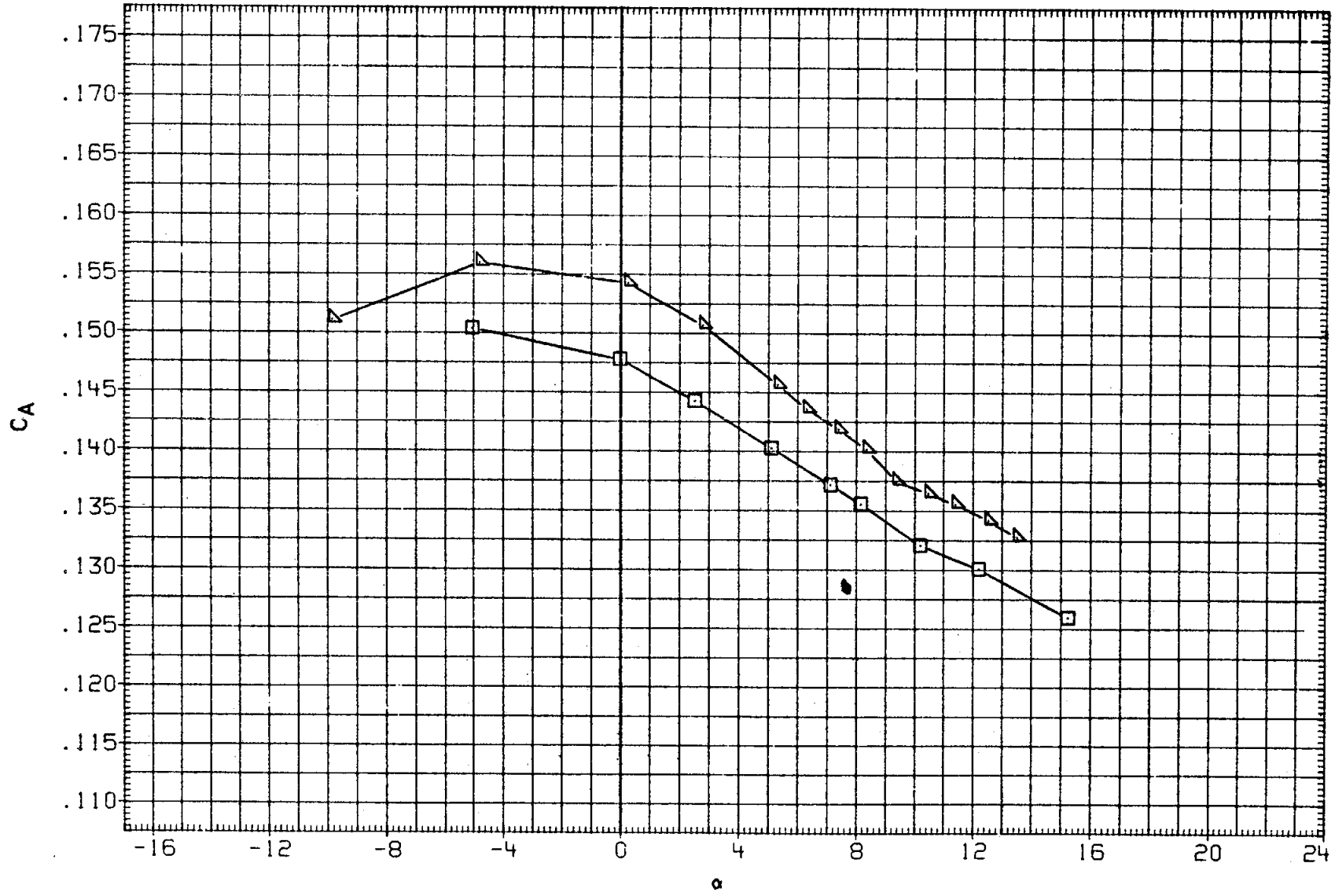

FIGURE 18. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK=0 AND 25 DEG.

(J)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0014	△	DATA NOT AVAILABLE	.000	.000	.000	.000	54.570	.060	.000
RKN031	◁	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	.000
R2F098	D	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	55.000	.000	

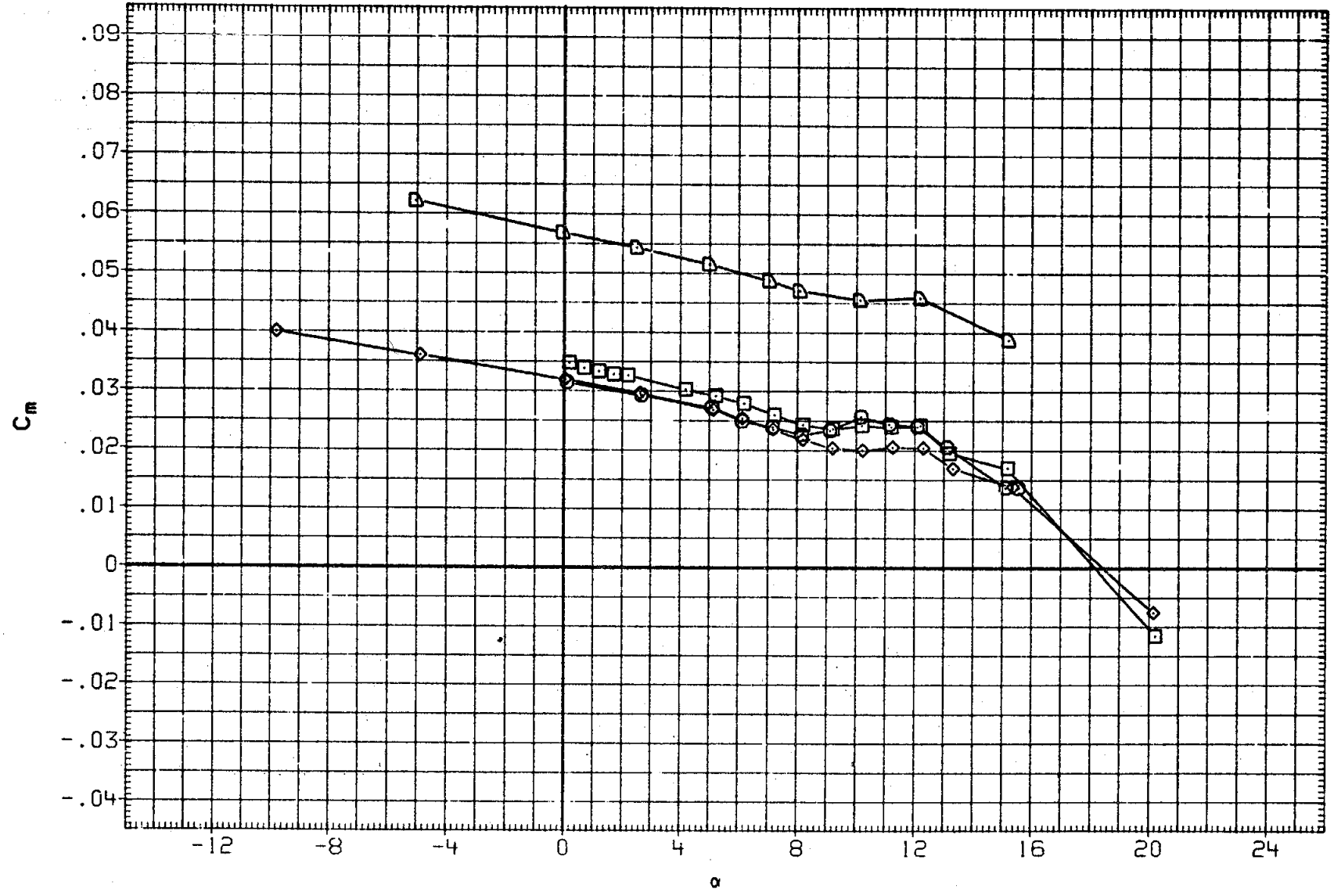

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	25.000	.000	
RK0014	△	DATA NOT AVAILABLE	.000	.000	.000	.000	54.570	.060	.000
RKN031	◸	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	.000
R2F098	D	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	55.000	.000	

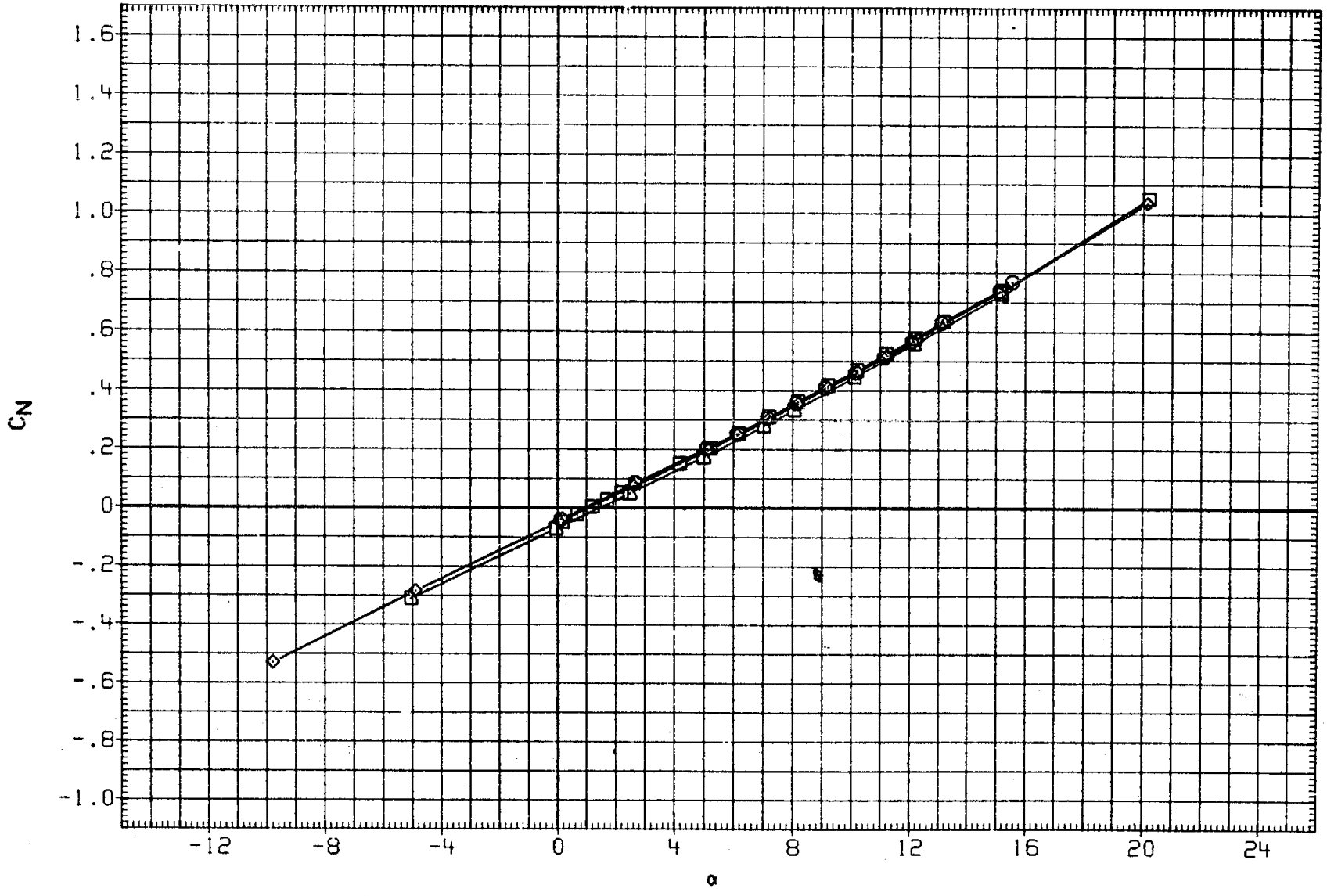

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0014	△	DATA NOT AVAILABLE	.000	.000	.000	.000	54.570	.060	.000
RKN031	◺	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	.000
R2F098	D	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	55.000	.000	

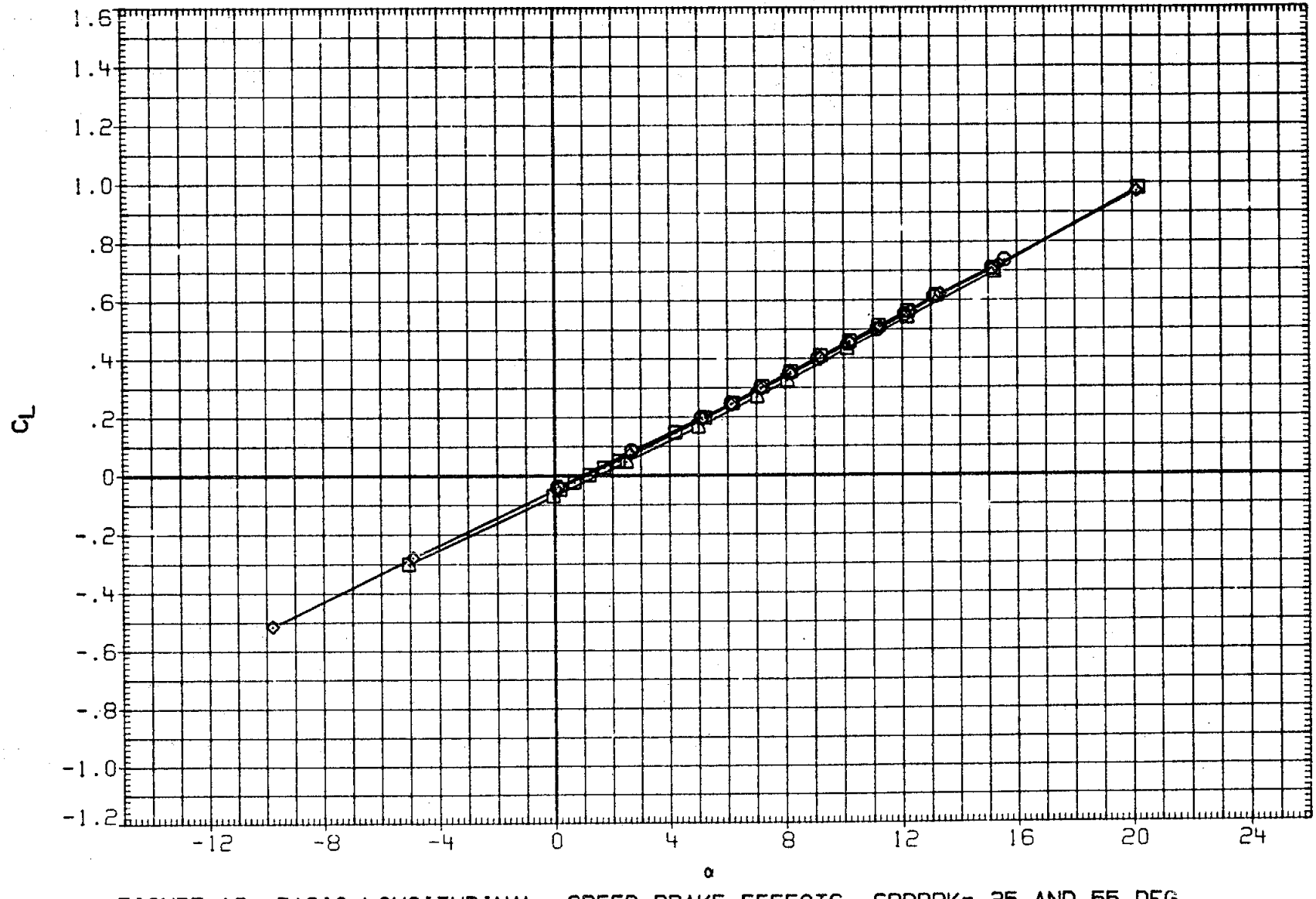

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0014	△	DATA NOT AVAILABLE	.000	.000	.000	.000	54.570	.060	.000
RKN031	◺	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	.000
R2F098	◻	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	55.000	.000	

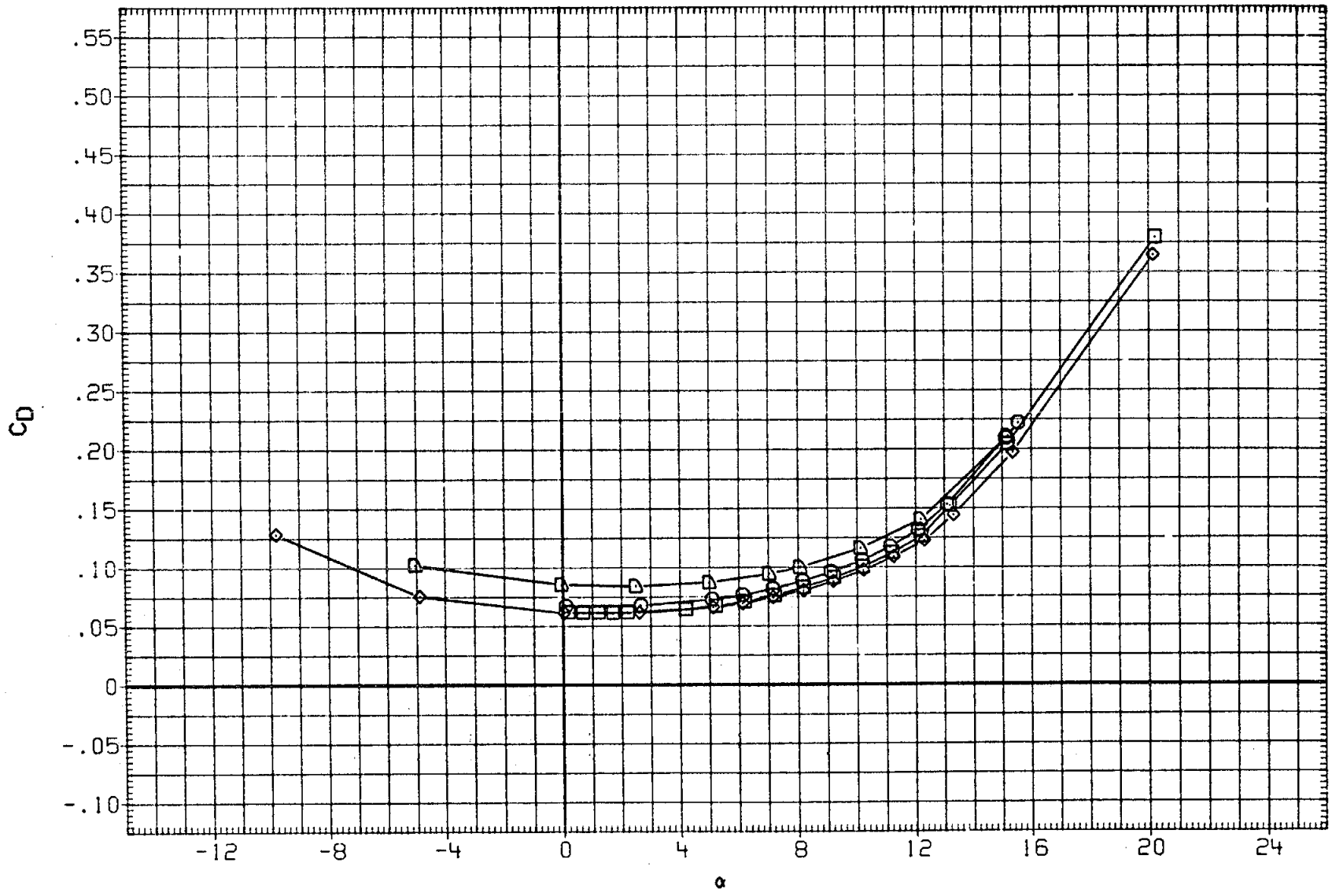

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	25.000	.000	
RK0014	△	DATA NOT AVAILABLE	.000	.000	.000	.000	54.570	.060	.000
RKN031	◺	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	.000
R2F098	D	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	55.000	.000	

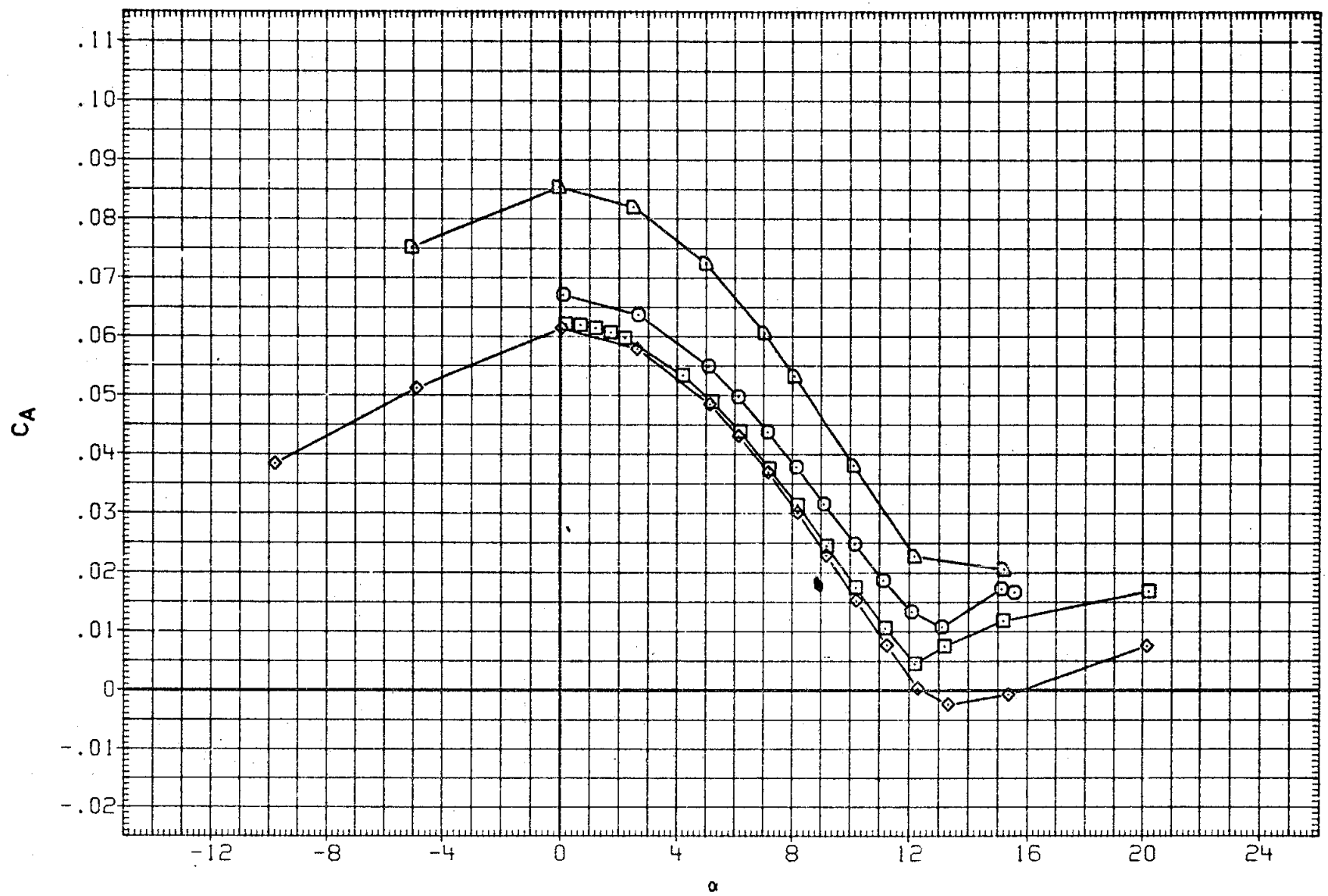

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0014	△	DATA NOT AVAILABLE	.000	.000	.000	.000	54.570	.060	.000
RKN031	◺	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	.000
R2F098	D	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	55.000	.000	

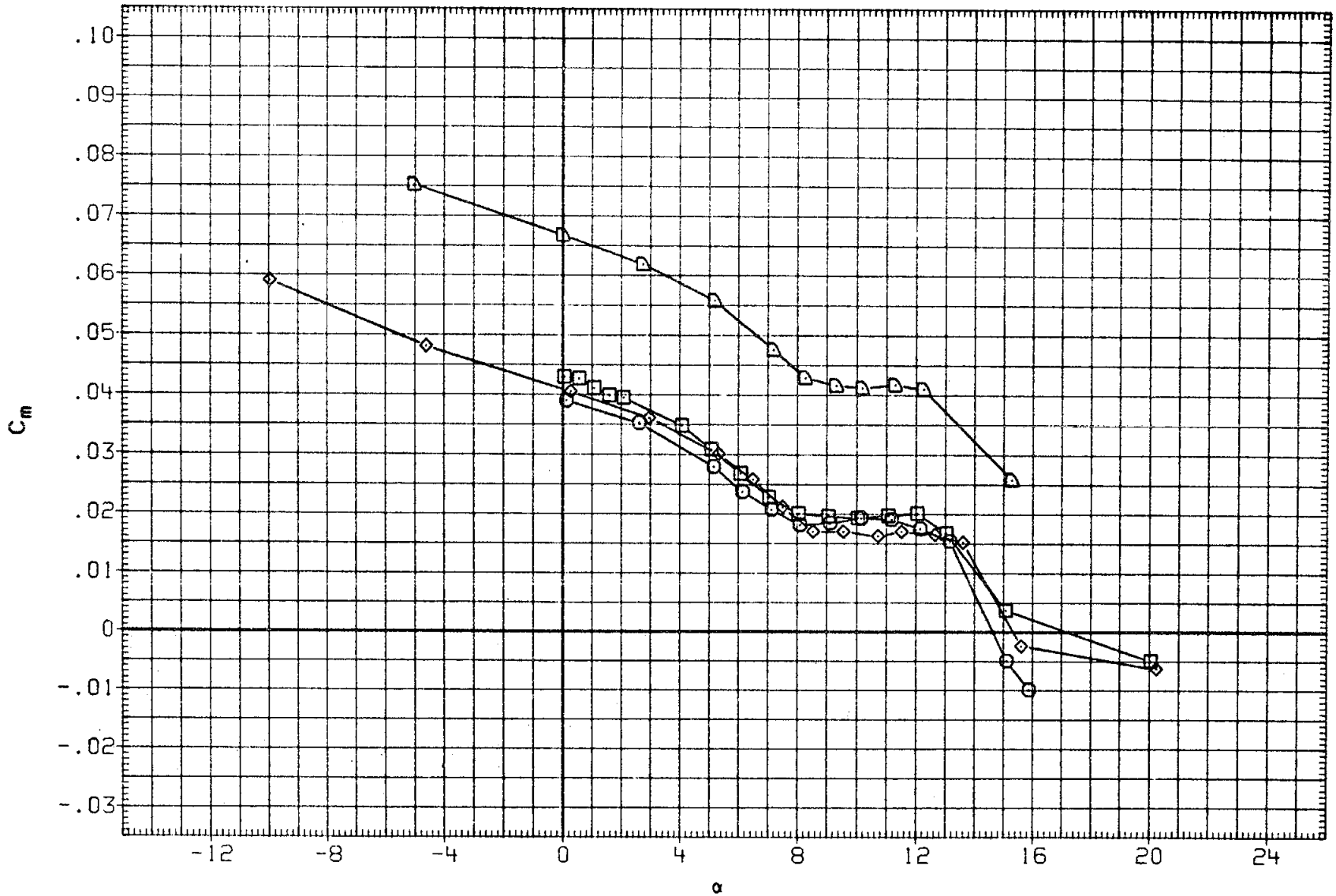

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0014	△	DATA NOT AVAILABLE	.000	.000	.000	.000	54.570	.060	.000
RKN031	◺	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	.000
R2F098	D	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	55.000	.000	

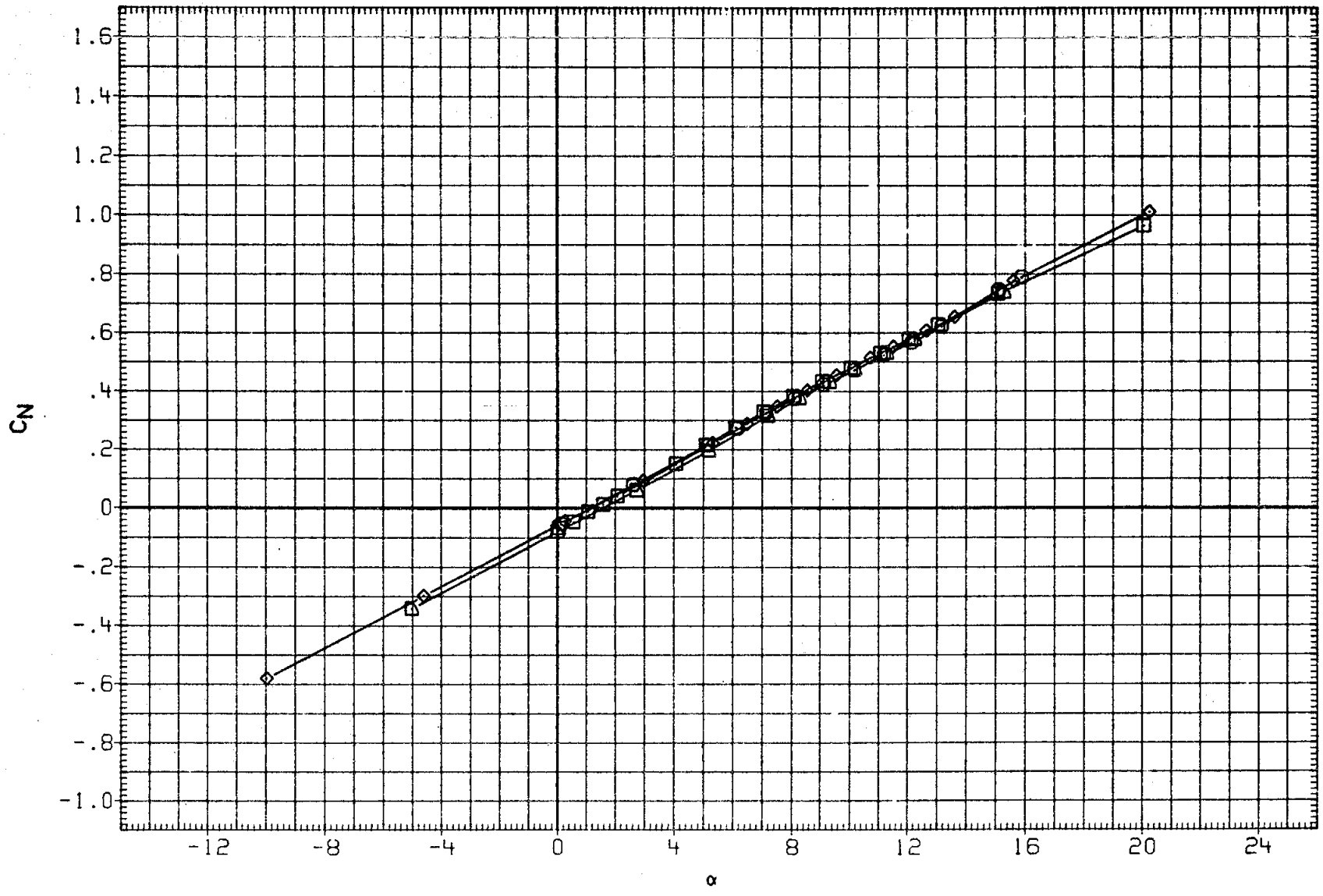

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0014	△	DATA NOT AVAILABLE	.000	.000	.000	.000	54.570	.060	.000
RKN031	◺	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	.000
R2F098	D	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	55.000	.000	

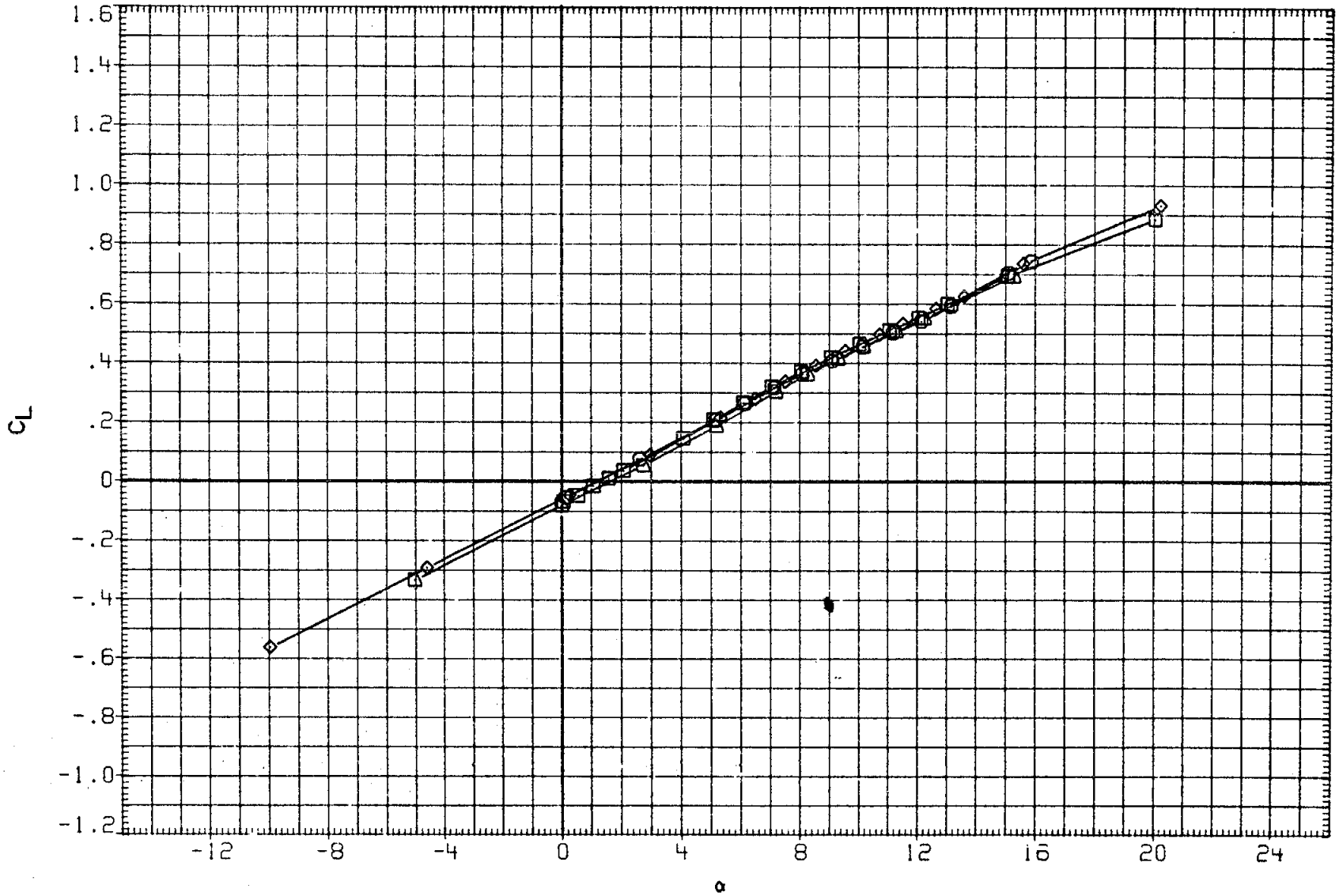

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0014	△	DATA NOT AVAILABLE	.000	.000	.000	.000	54.570	.060	.000
RKN031	◺	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	.000
R2F098	D	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	55.000	.000	

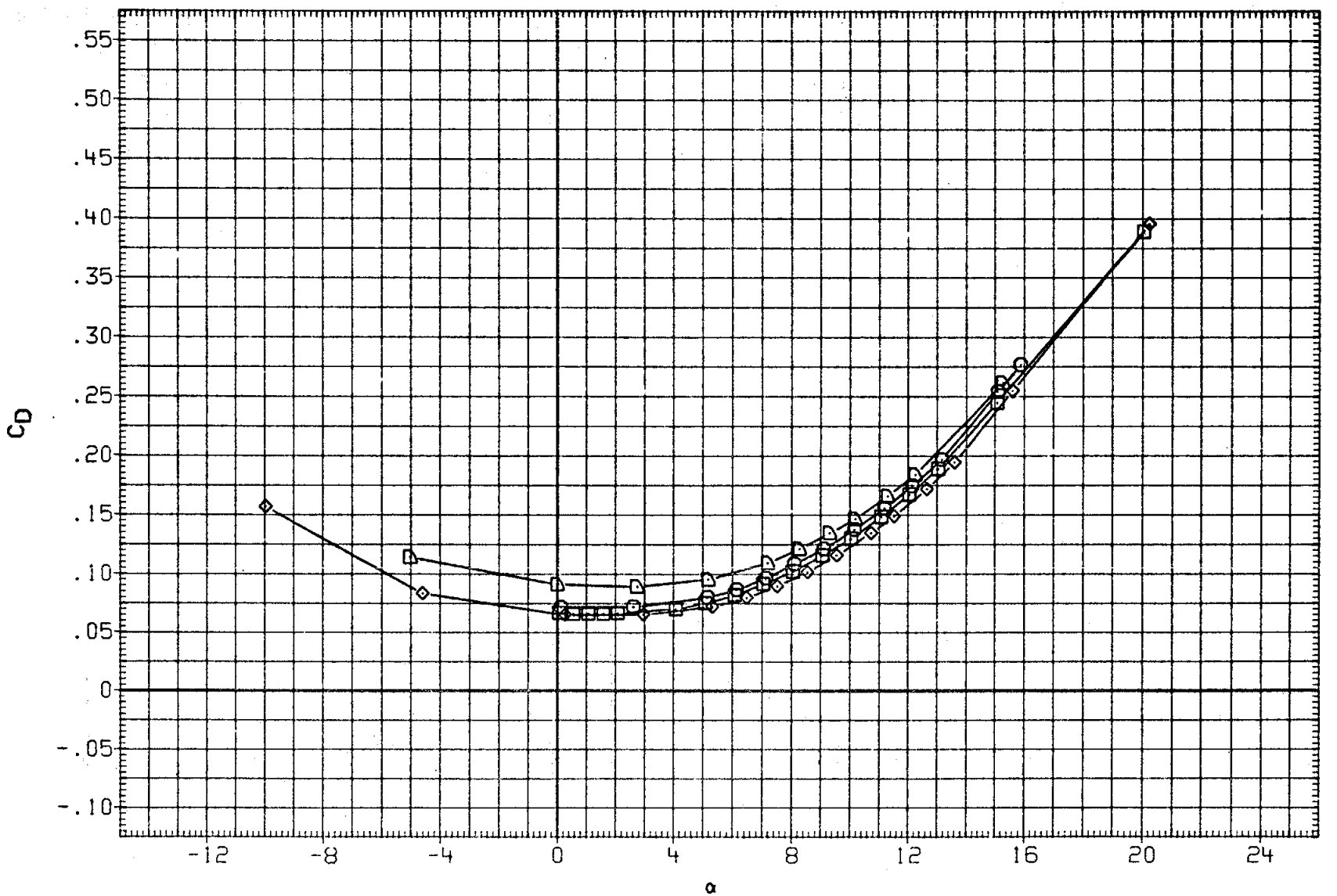

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0014	△	DATA NOT AVAILABLE	.000	.000	.000	.000	54.570	.060	.000
RKN031	◺	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	.000
R2F098	D	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	55.000	.000	

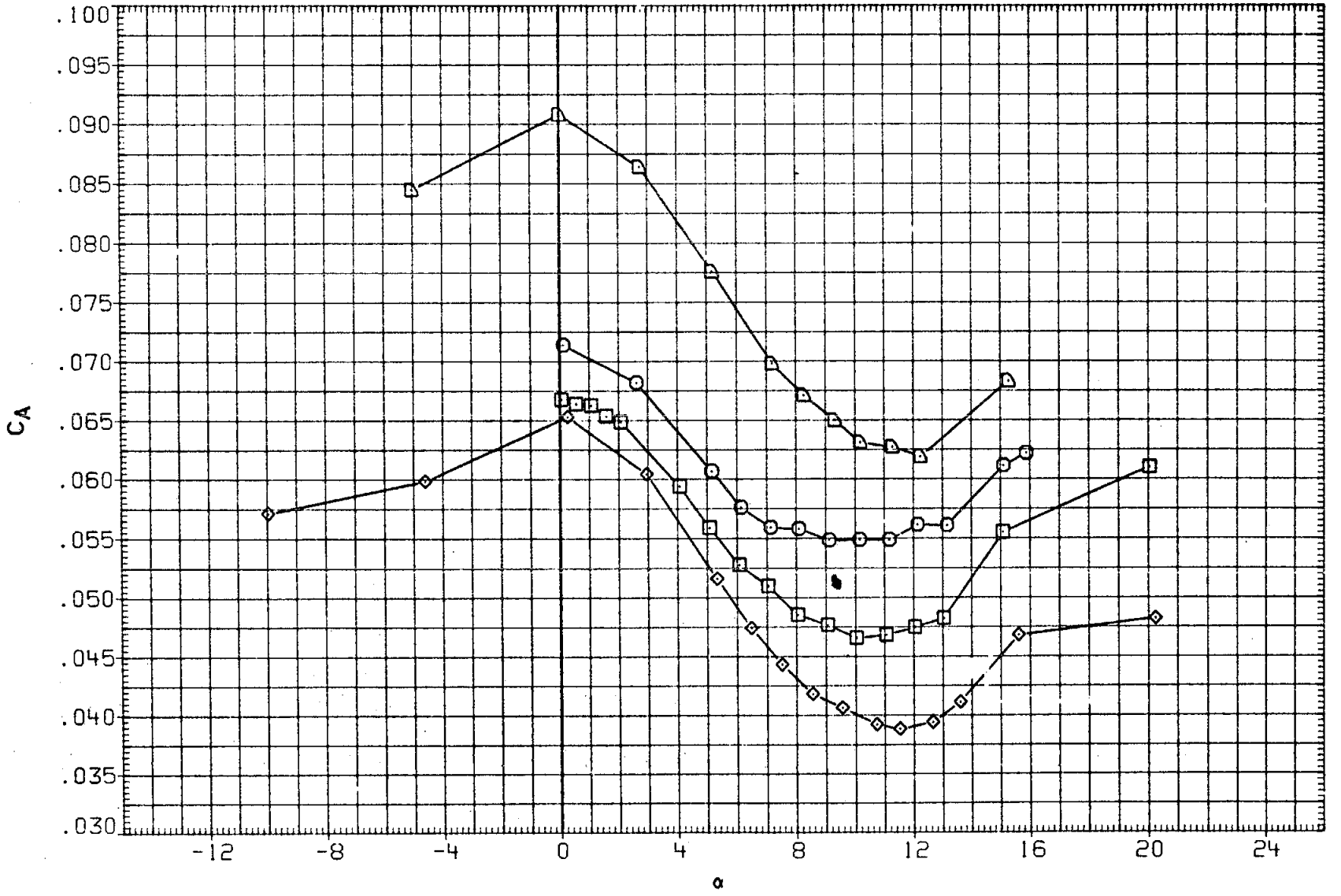

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0014	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	54.570	.060	.000
RKN031	◺	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	55.000	.000	.000
R2F098	D	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	55.000	.000	

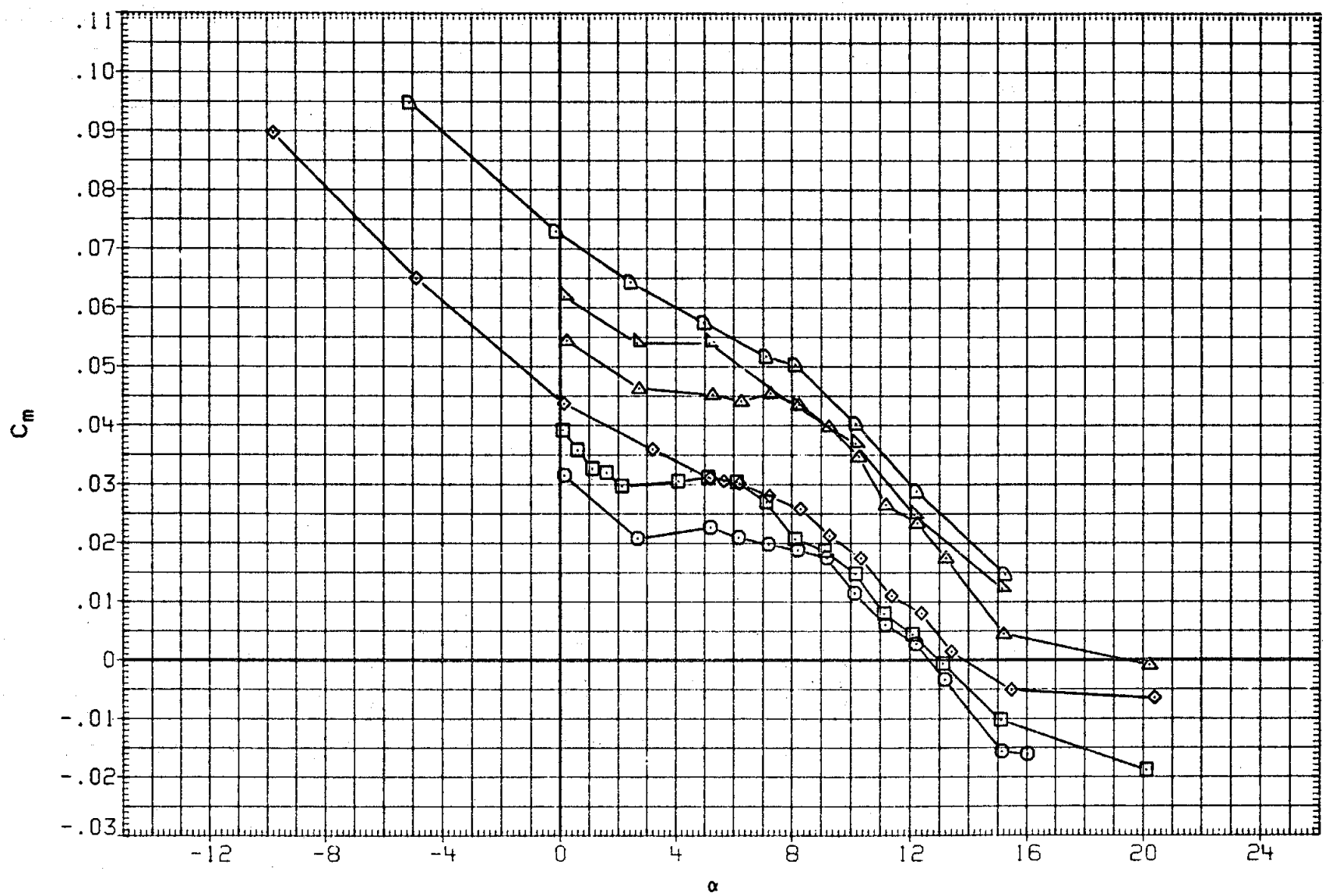

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	25.000	.000	
RK0014	△	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	54.570	.060	.000
RKN031	◺	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	55.000	.000	.000
R2F098	D	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	55.000	.000	

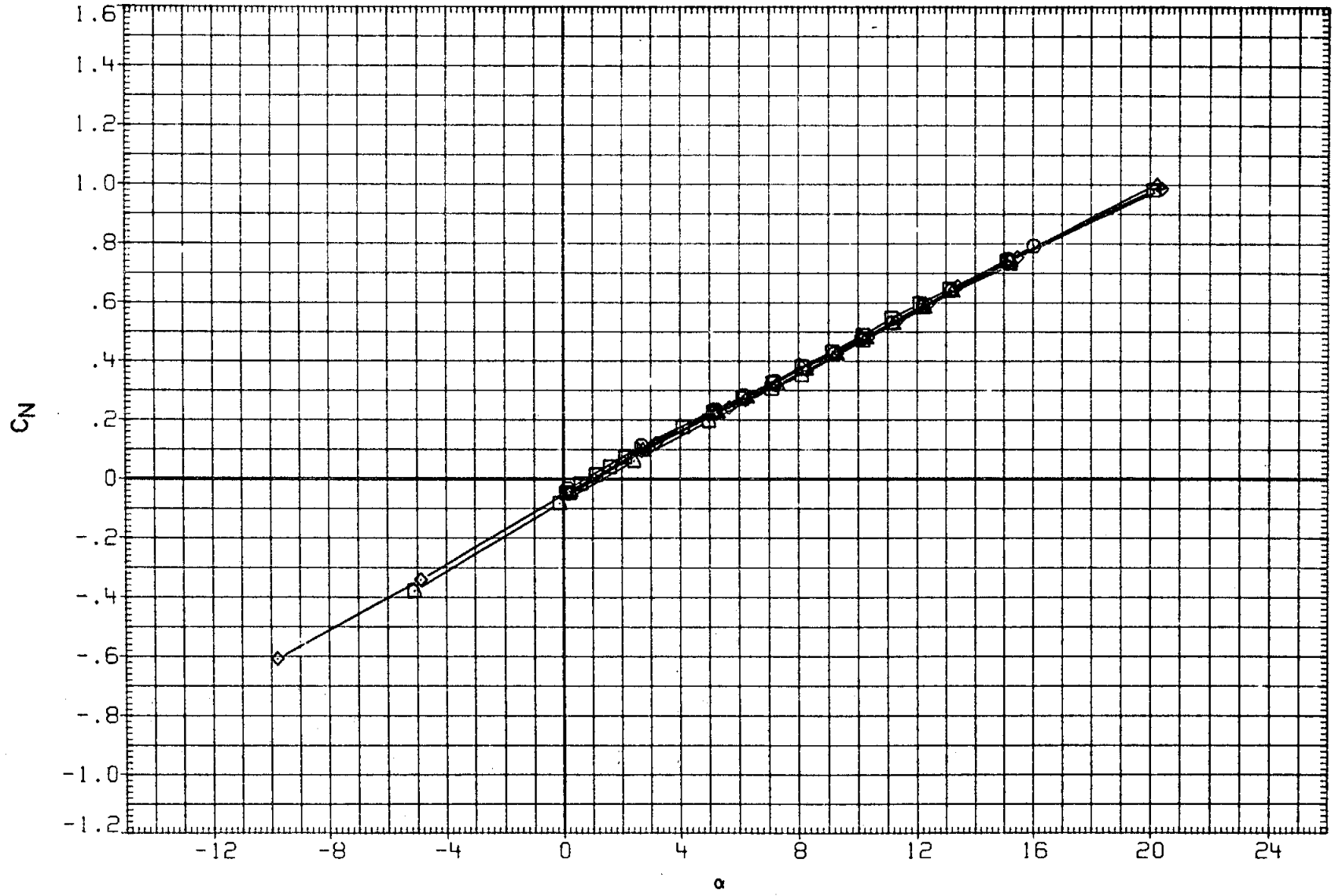

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0014	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	54.570	.060	.000
RKN031	◺	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	55.000	.000	.000
R2F098	D	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	55.000	.000	

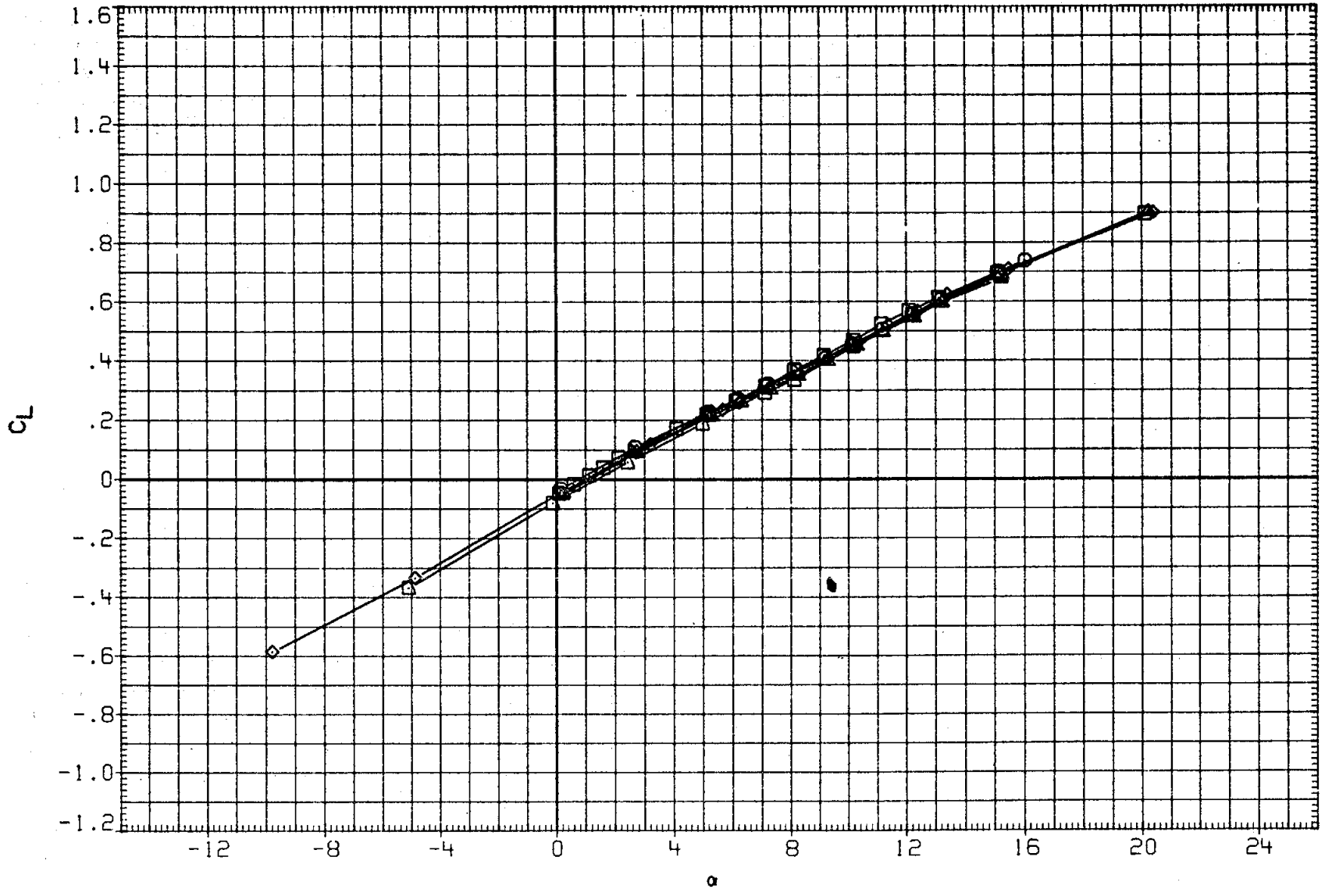

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0014	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	54.570	.060	.000
RKN031	◺	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	55.000	.000	.000
R2F098	D	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	55.000	.000	

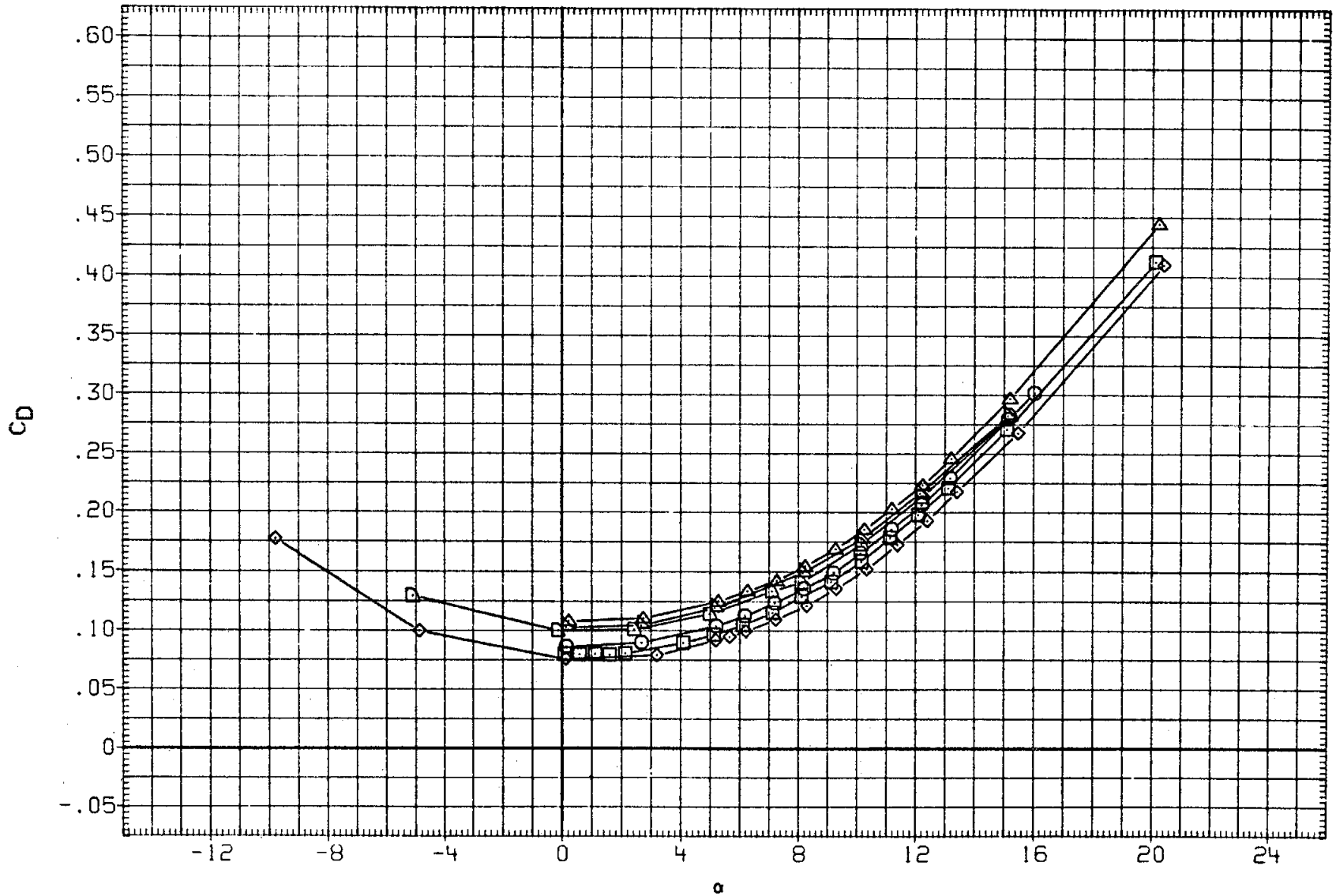

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0014	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	54.570	.060	.000
RKN031	◺	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	55.000	.000	.000
R2F098	D	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	55.000	.000	

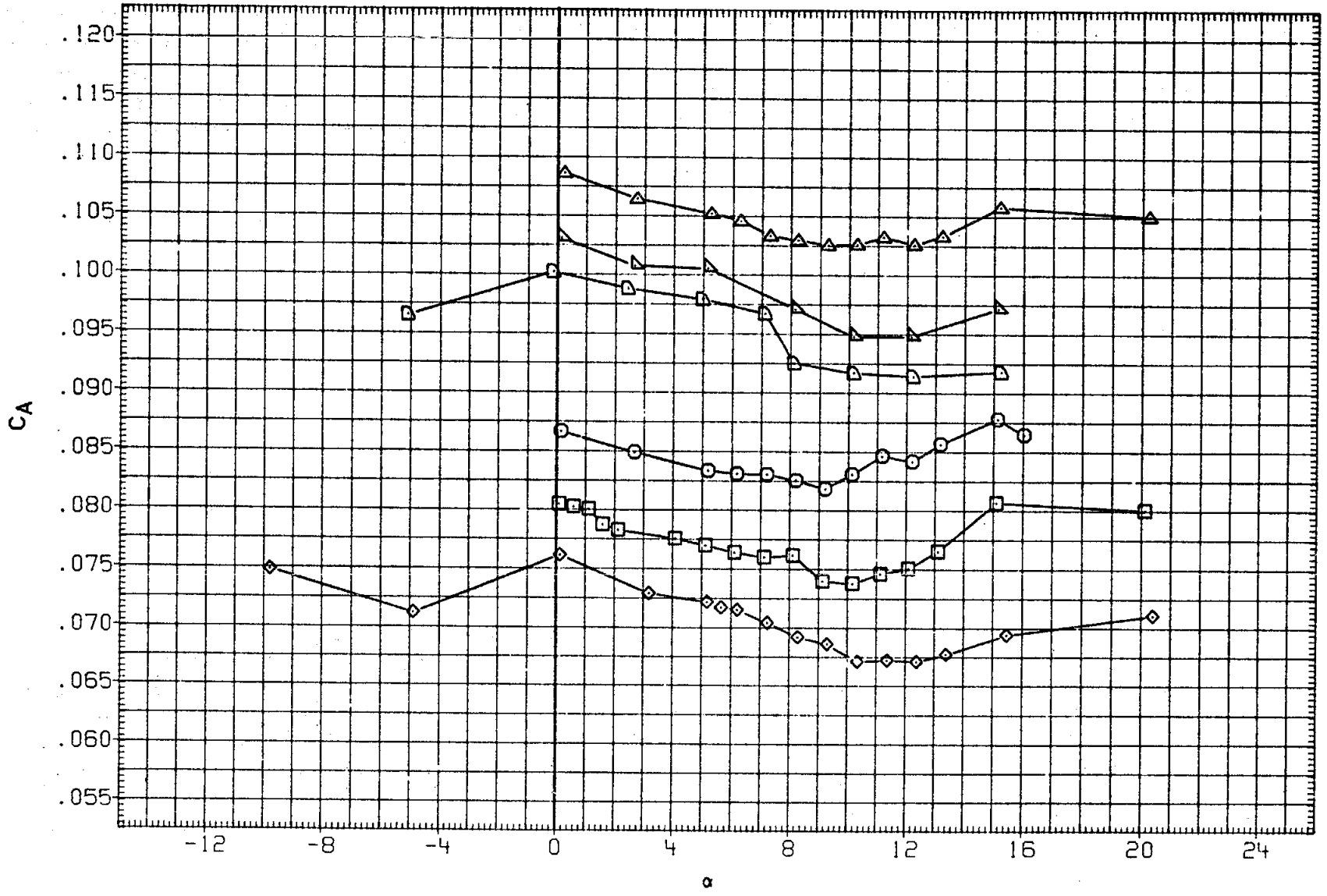

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0014	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	54.570	.060	.000
RKN031	◺	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	55.000	.000	.000
R2F098	D	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	55.000	.000	

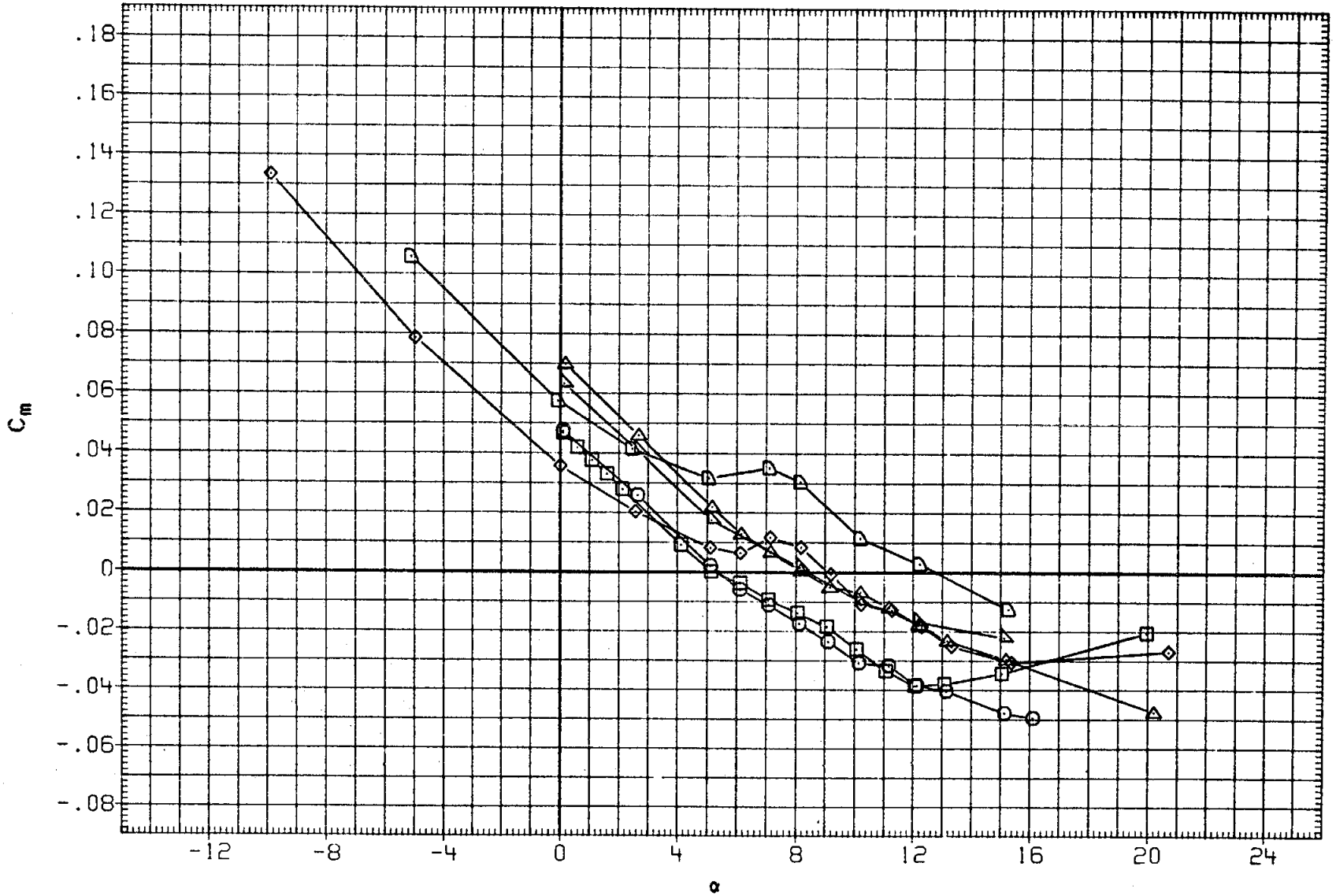

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0014	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	54.570	.060	.000
RKN031	◺	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	55.000	.000	.000
R2F098	◻	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	55.000	.000	

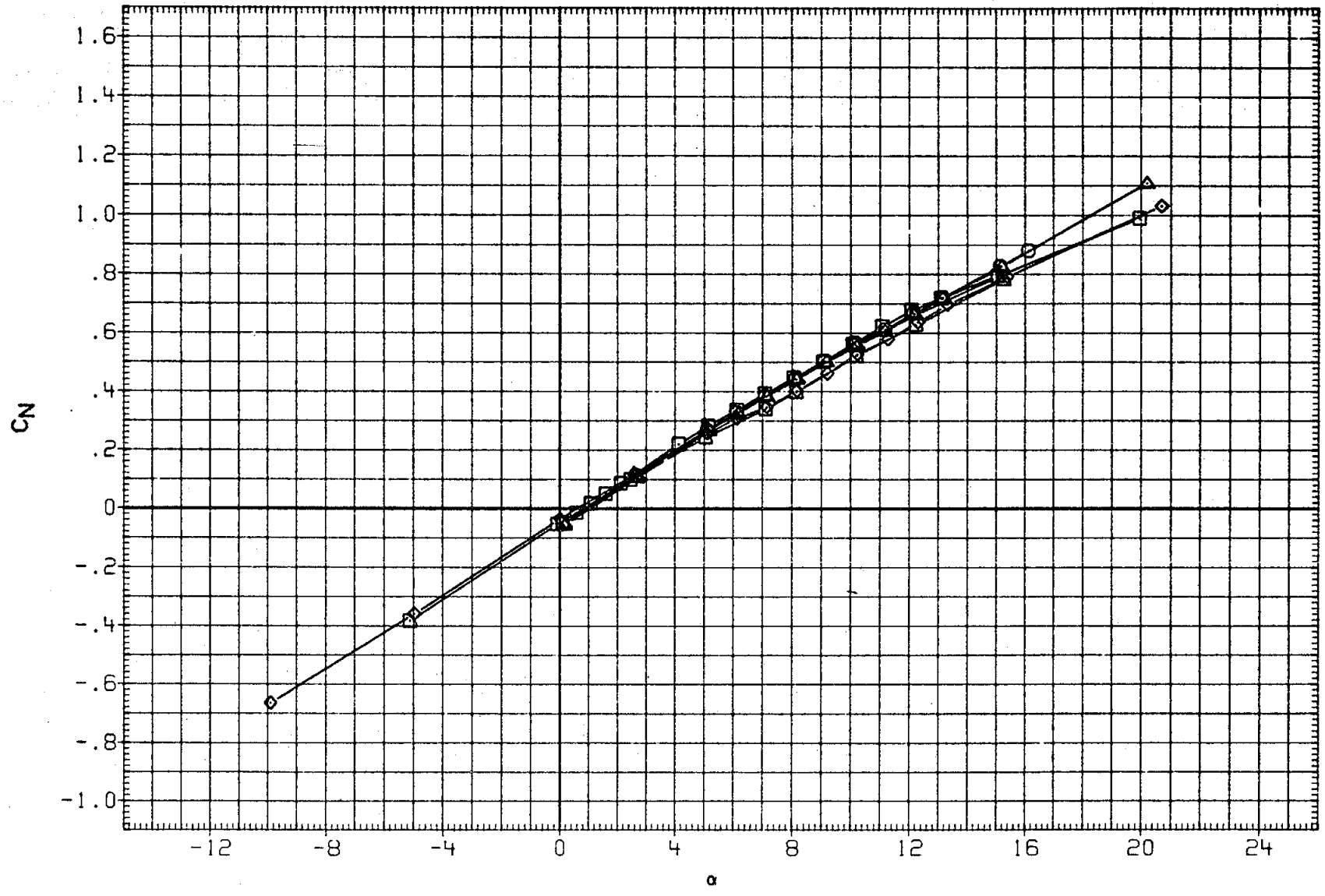

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0014	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	54.570	.060	.000
RKN031	◺	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	55.000	.000	.000
R2F098	◻	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	55.000	.000	

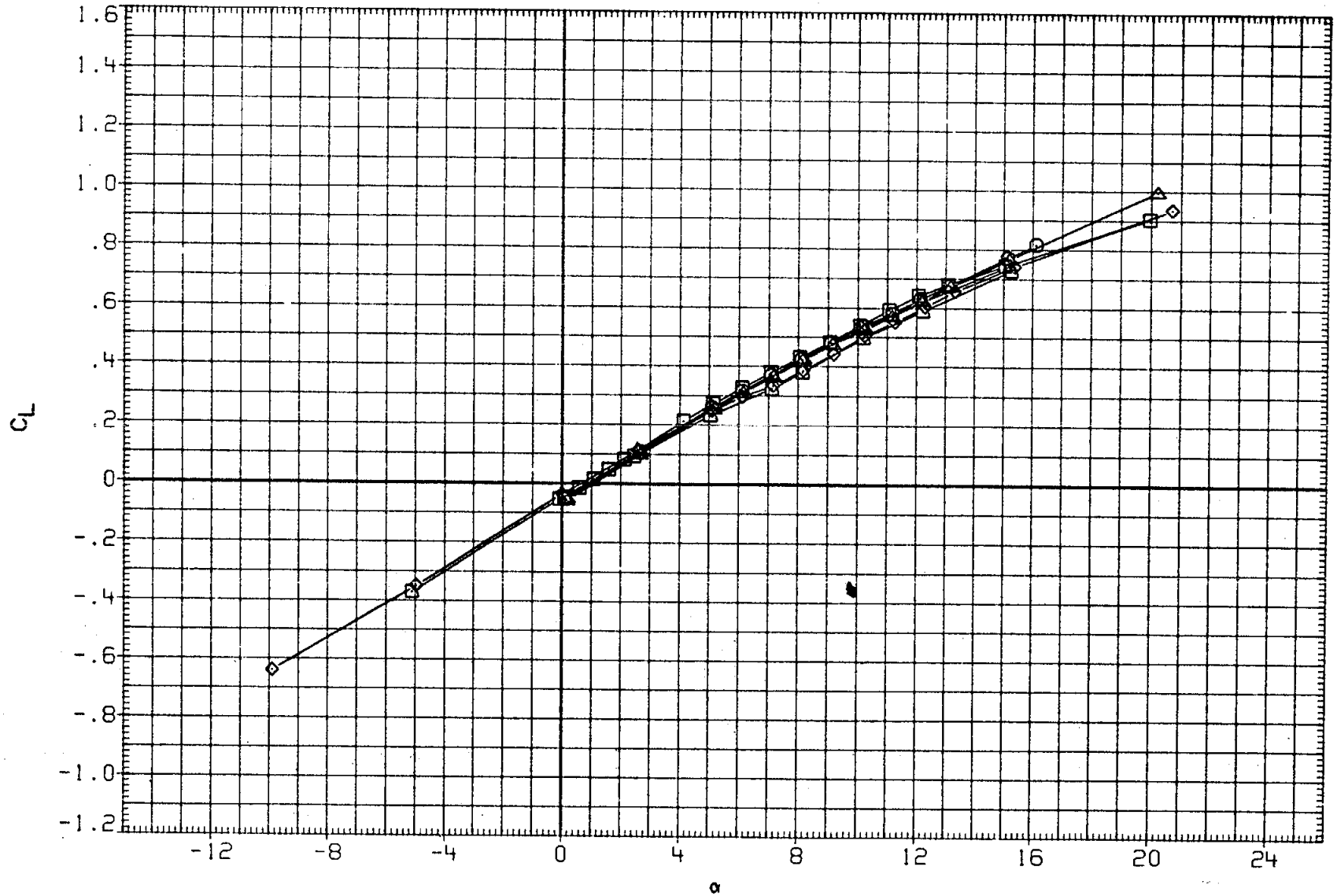

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0014	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	54.570	.060	.000
RKN031	◺	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	55.000	.000	.000
R2F098	◗	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	55.000	.000	

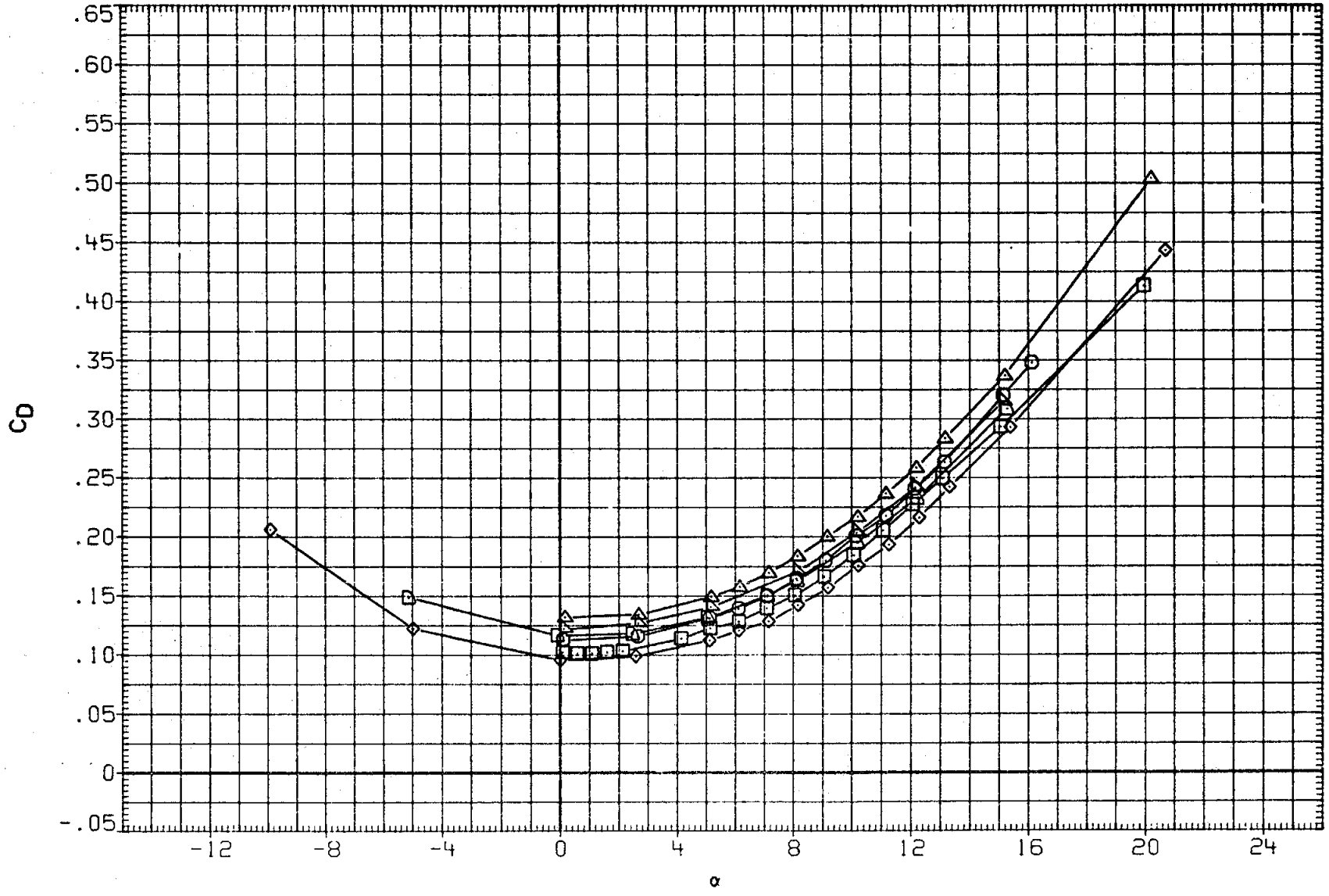

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0014	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	54.570	.060	.000
RKN031	◺	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	55.000	.000	.000
R2F098	D	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	55.000	.000	

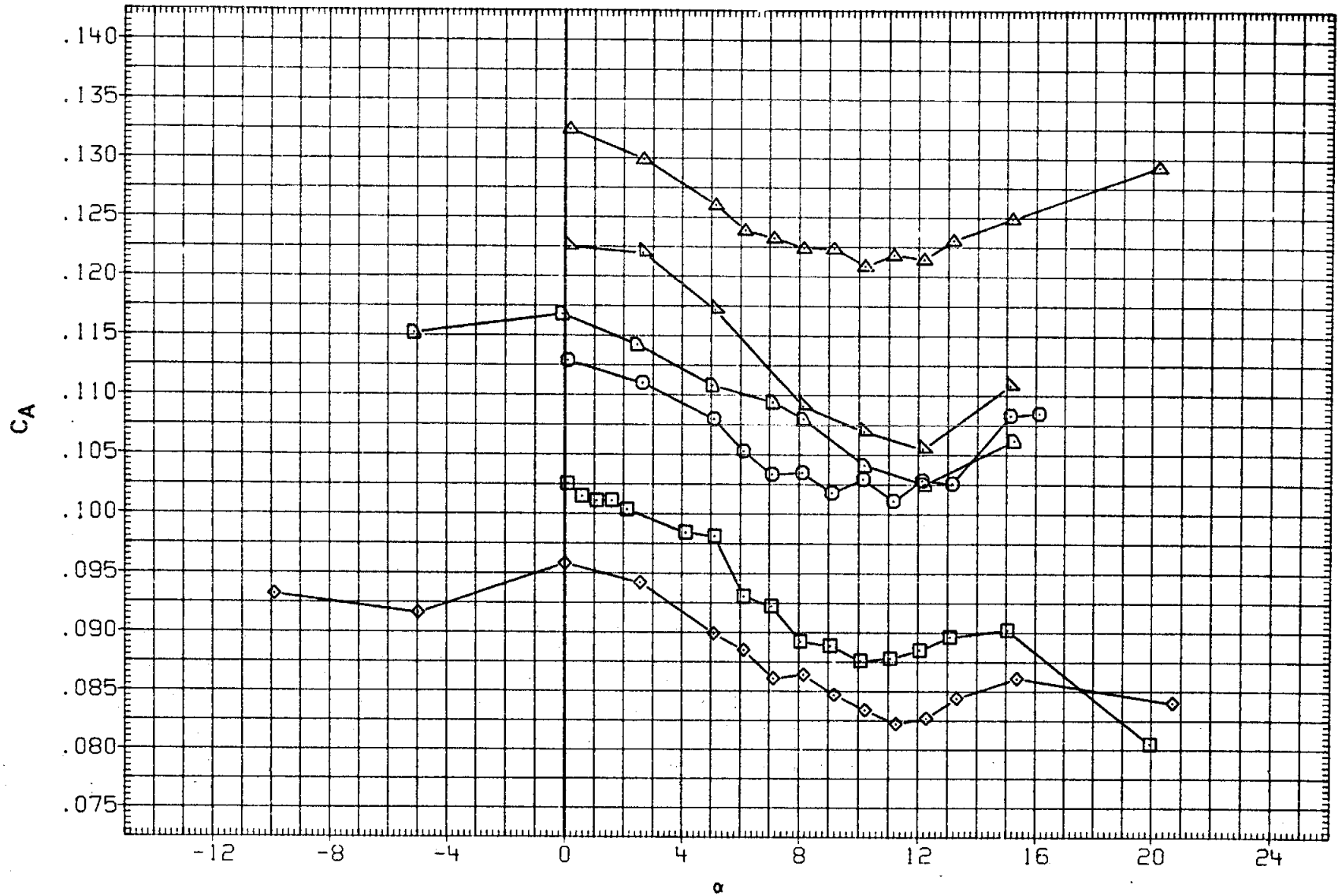

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RK0014	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	54.570	.060	.000
RKN031	◺	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	55.000	.000	.000
R2F098	◺	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	

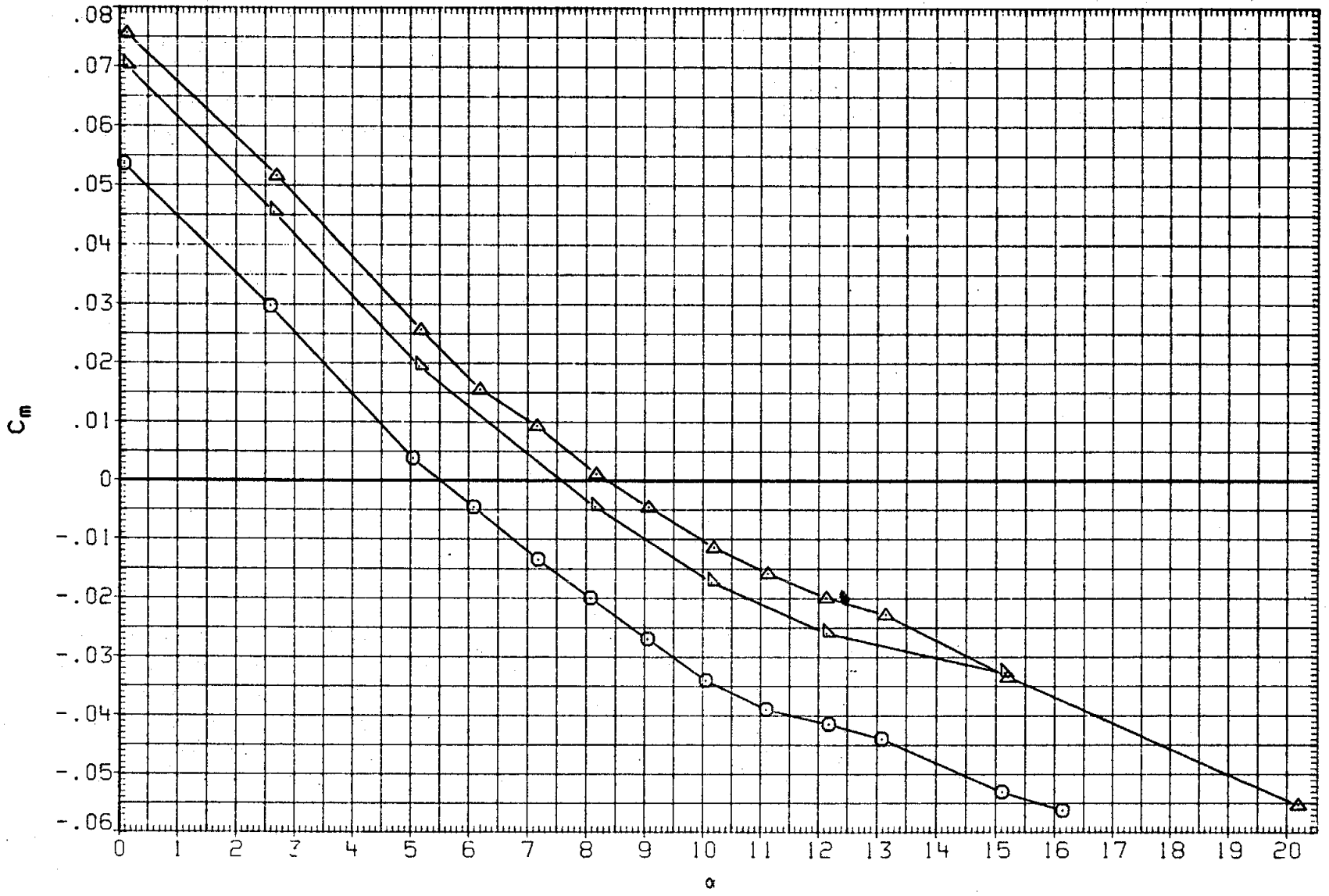

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RK0014	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	54.570	.060	.000
RKN031	◺	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	55.000	.000	.000
R2F098	D	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	

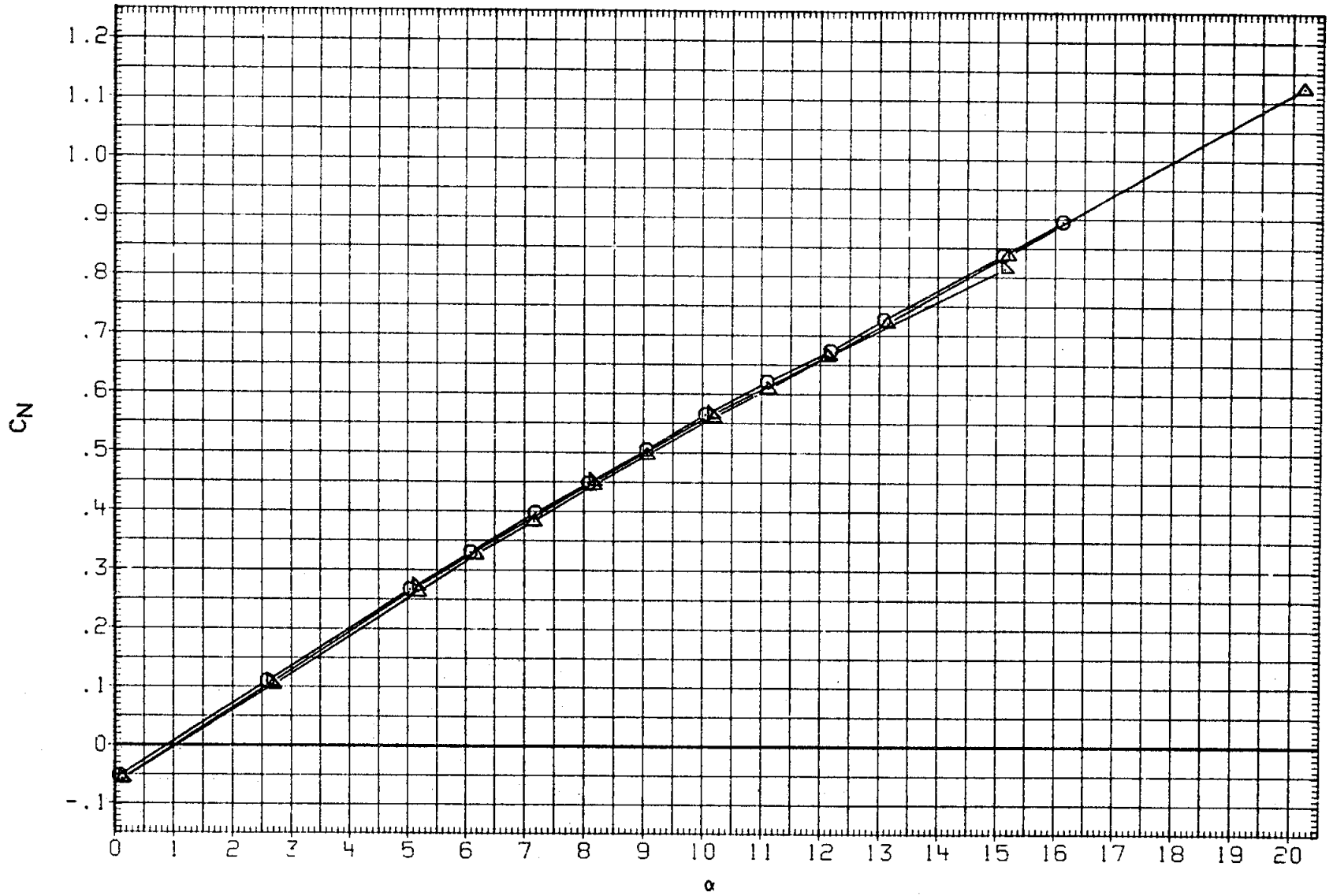

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RK0014	△	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	54.570	.060	.000
RKN031	◺	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	55.000	.000	.000
R2F098	◻	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	

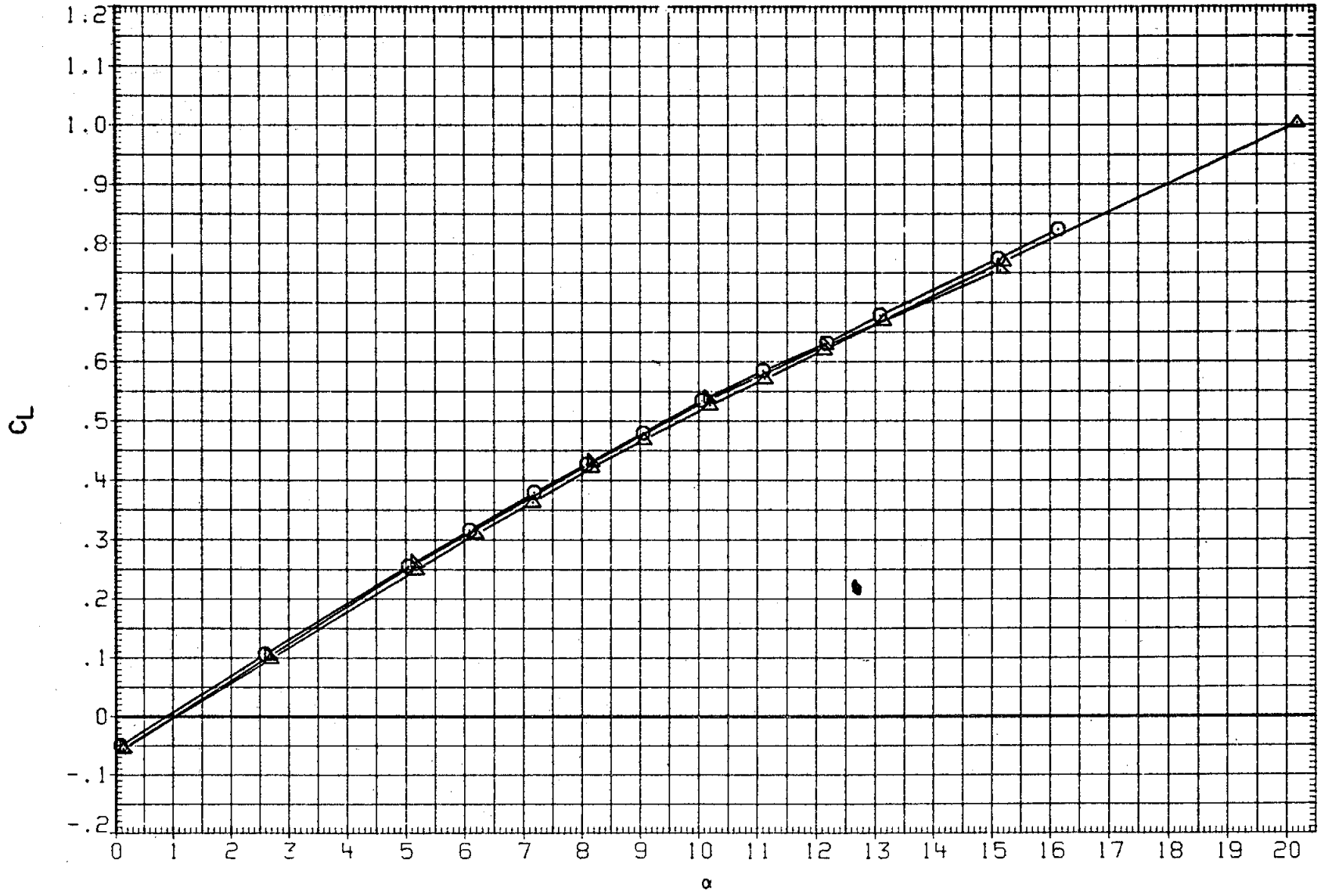

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RK0014	△	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	54.570	.060	.000
RKN031	◺	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	55.000	.000	.000
R2F098	◻	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	

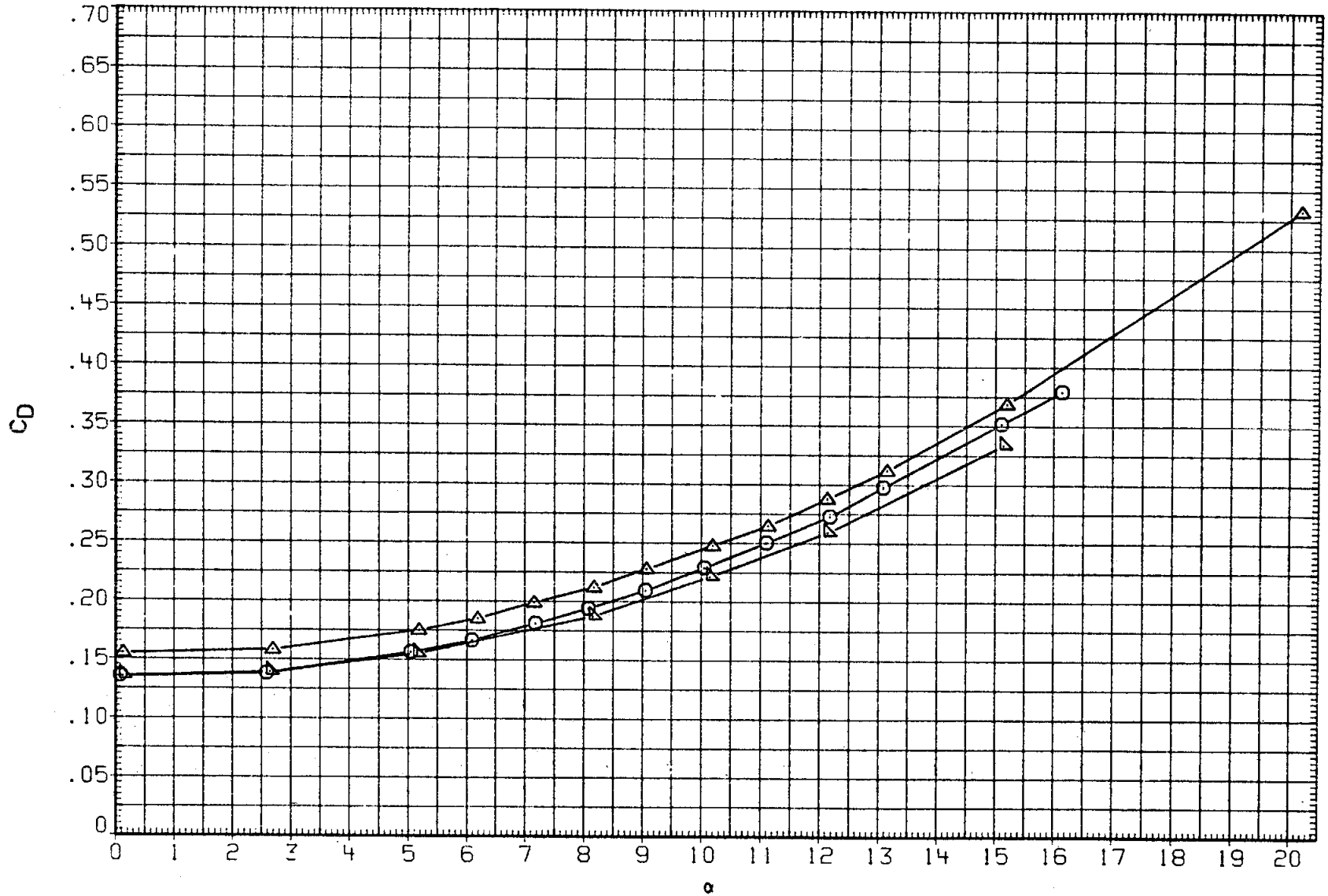

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RK0014	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	54.570	.060	.000
RKN031	◺	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	55.000	.000	.000
R2F098	D	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	

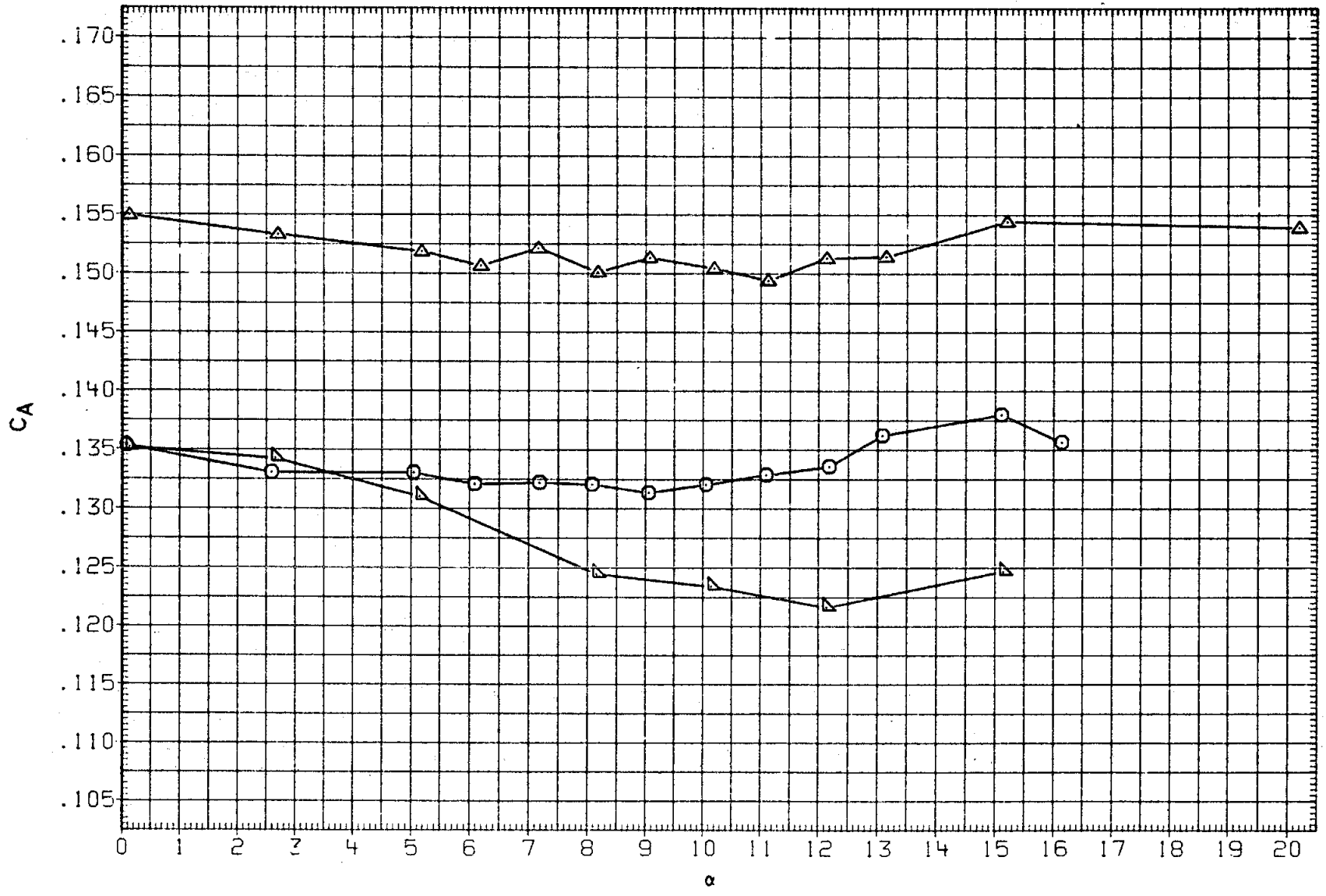

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0014	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	54.570	.060	.000
RKN031	◺	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	.000
R2F098	◻	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	

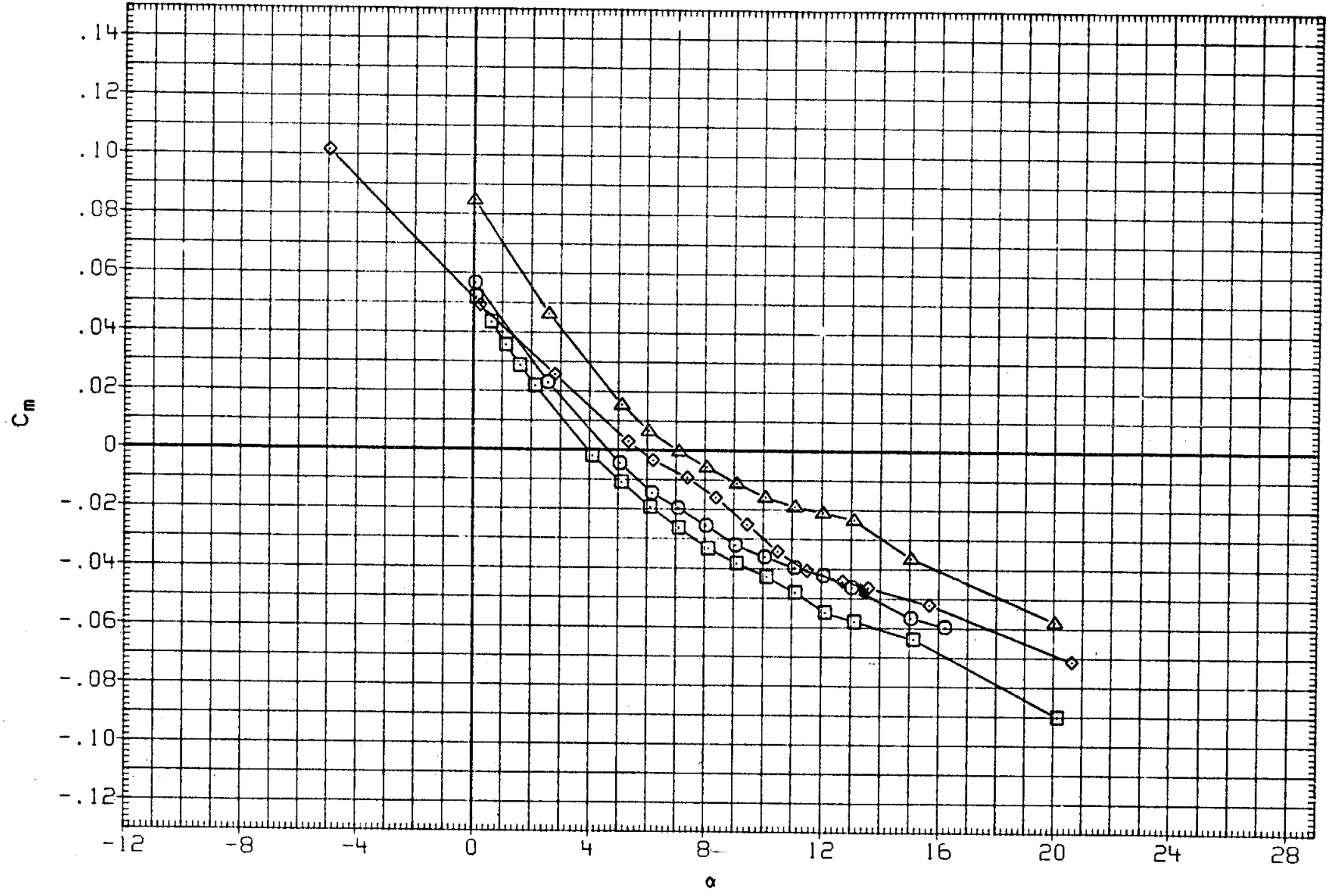

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 11B-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0014	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	54.570	.060	.000
RKN031	◺	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	.000
R2F098	◺	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	

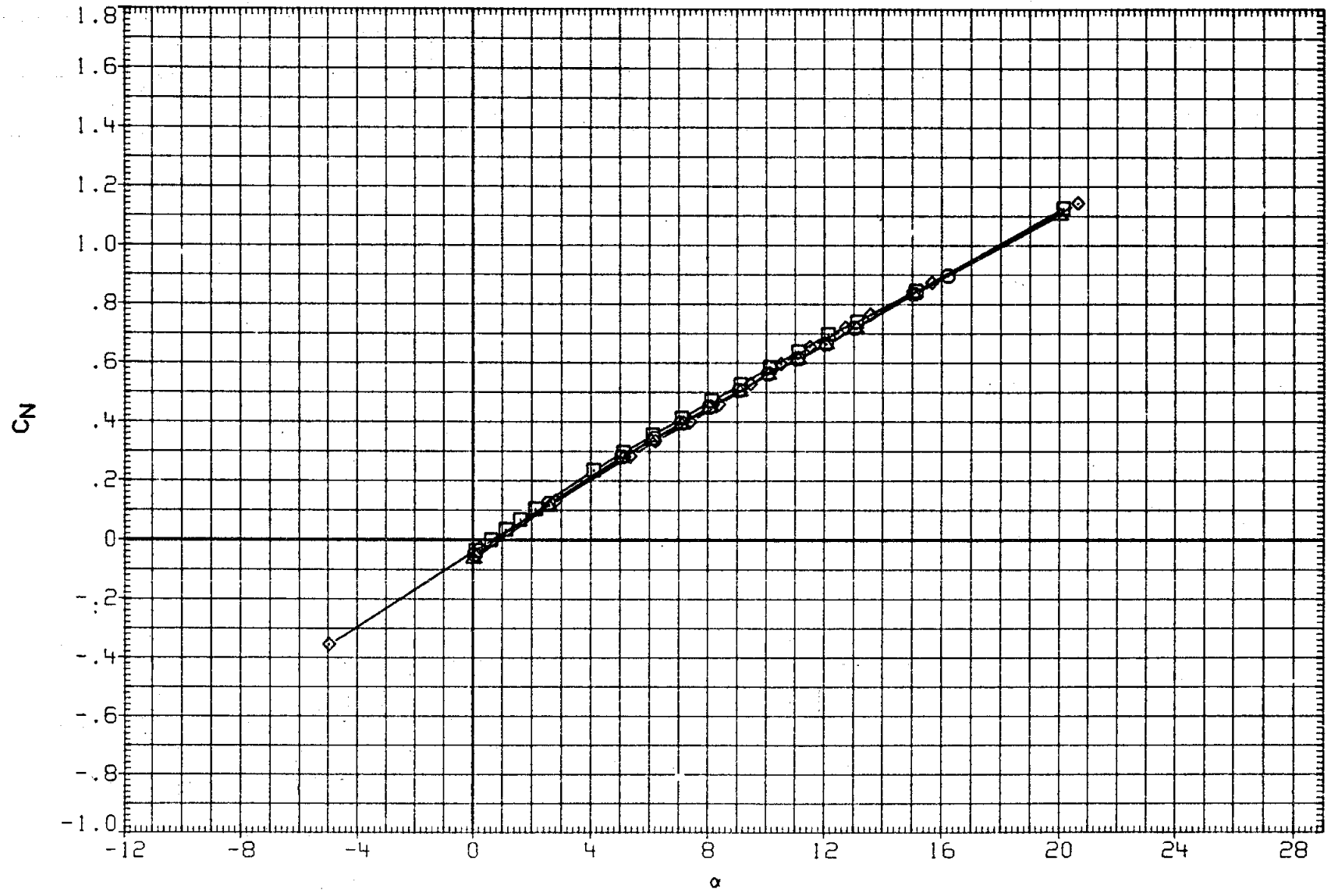

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0014	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	54.570	.060	.000
RKN031	▷	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	.000
R2F098	⬠	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	

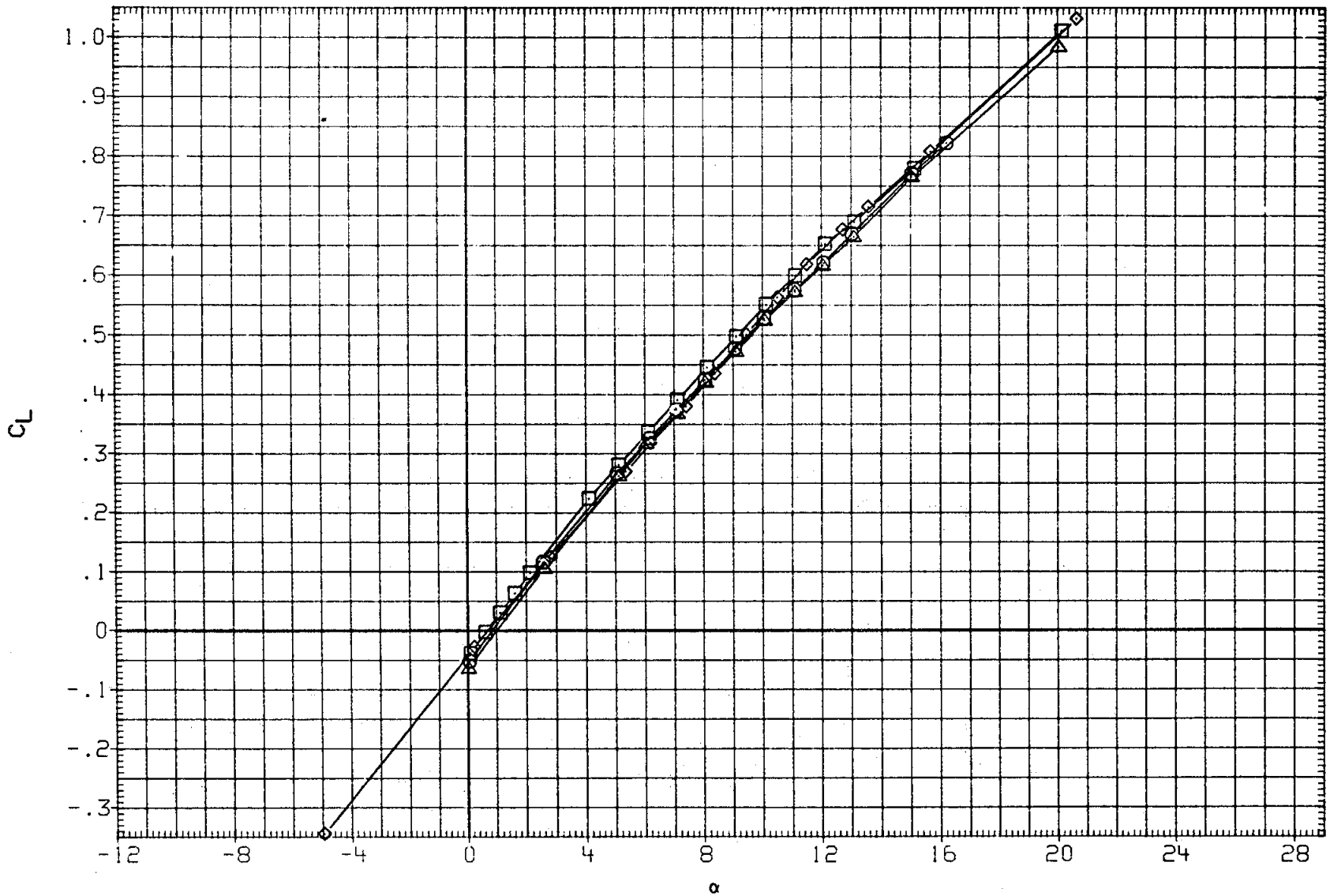

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	25.000	.000	
RK0014	△	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	54.570	.060	.000
RKN031	◺	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	.000
R2F098	◻	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	

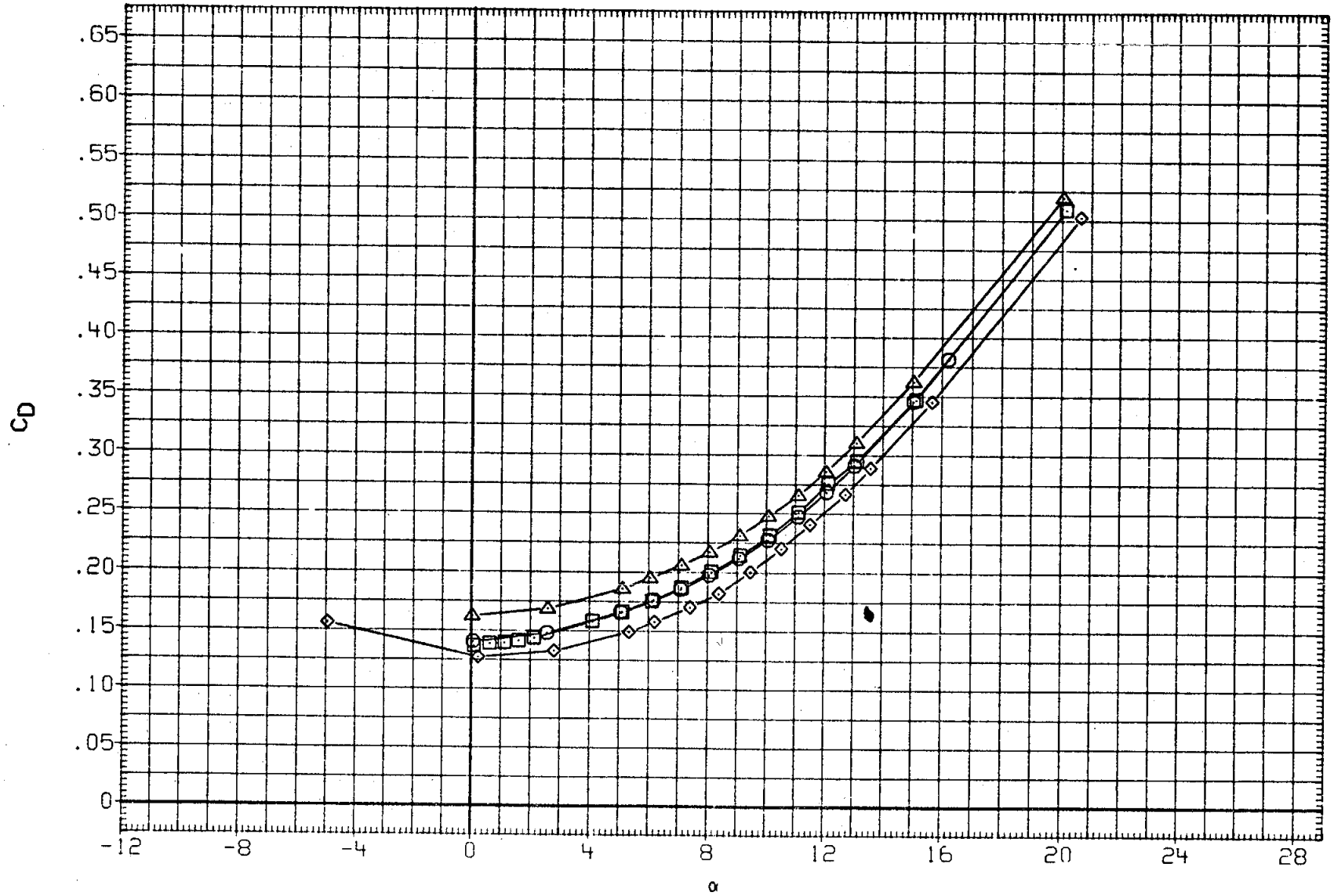

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0014	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	54.570	.060	.000
RKN031	◺	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	.000
R2F098	◺	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	

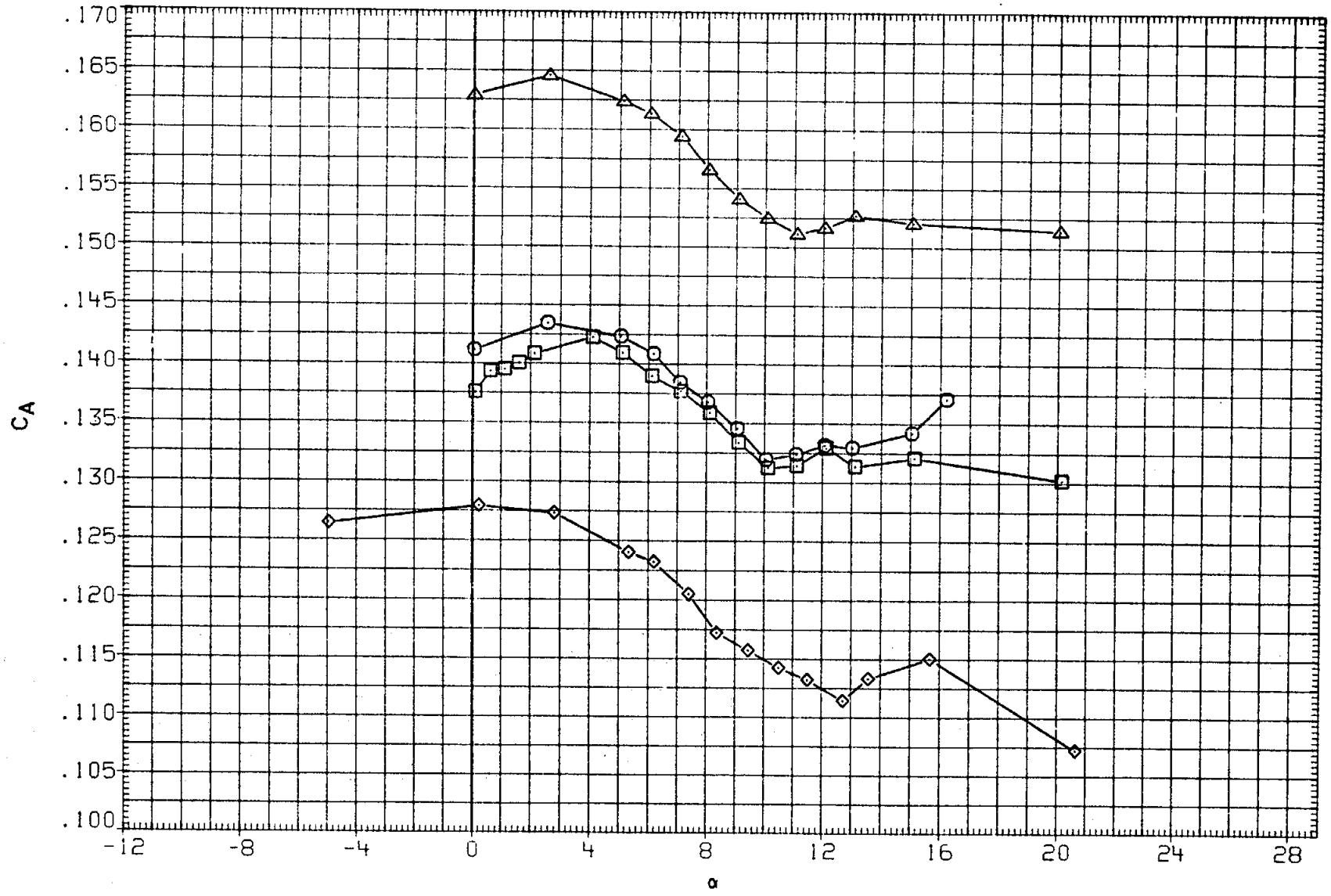

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0014	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	54.570	.060	.000
RKN031	◺	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	.000
R2F098	◻	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	55.000	.000	

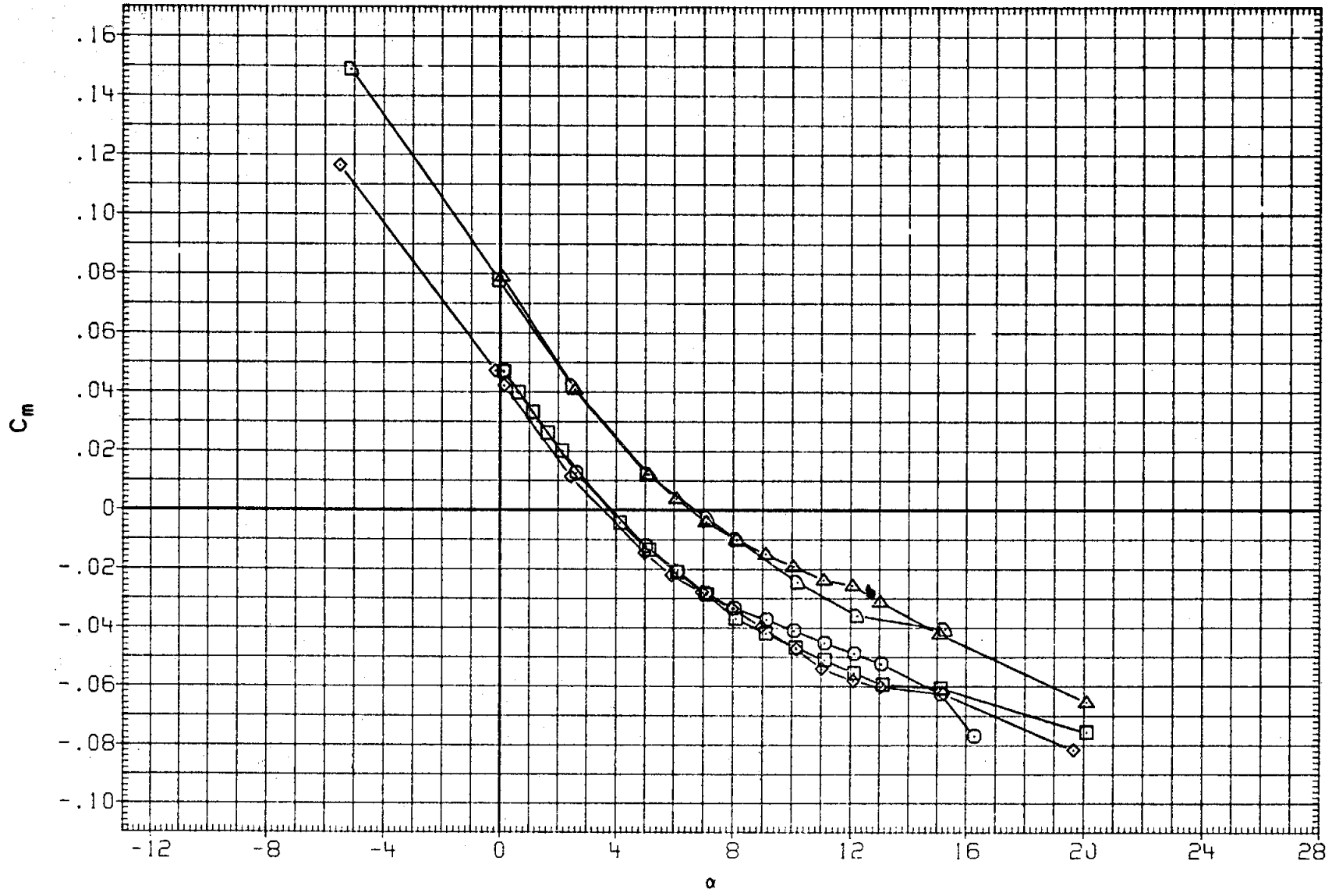

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0014	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	54.570	.060	.000
RKN031	▷	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	.000
R2F098	D	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	55.000	.000	

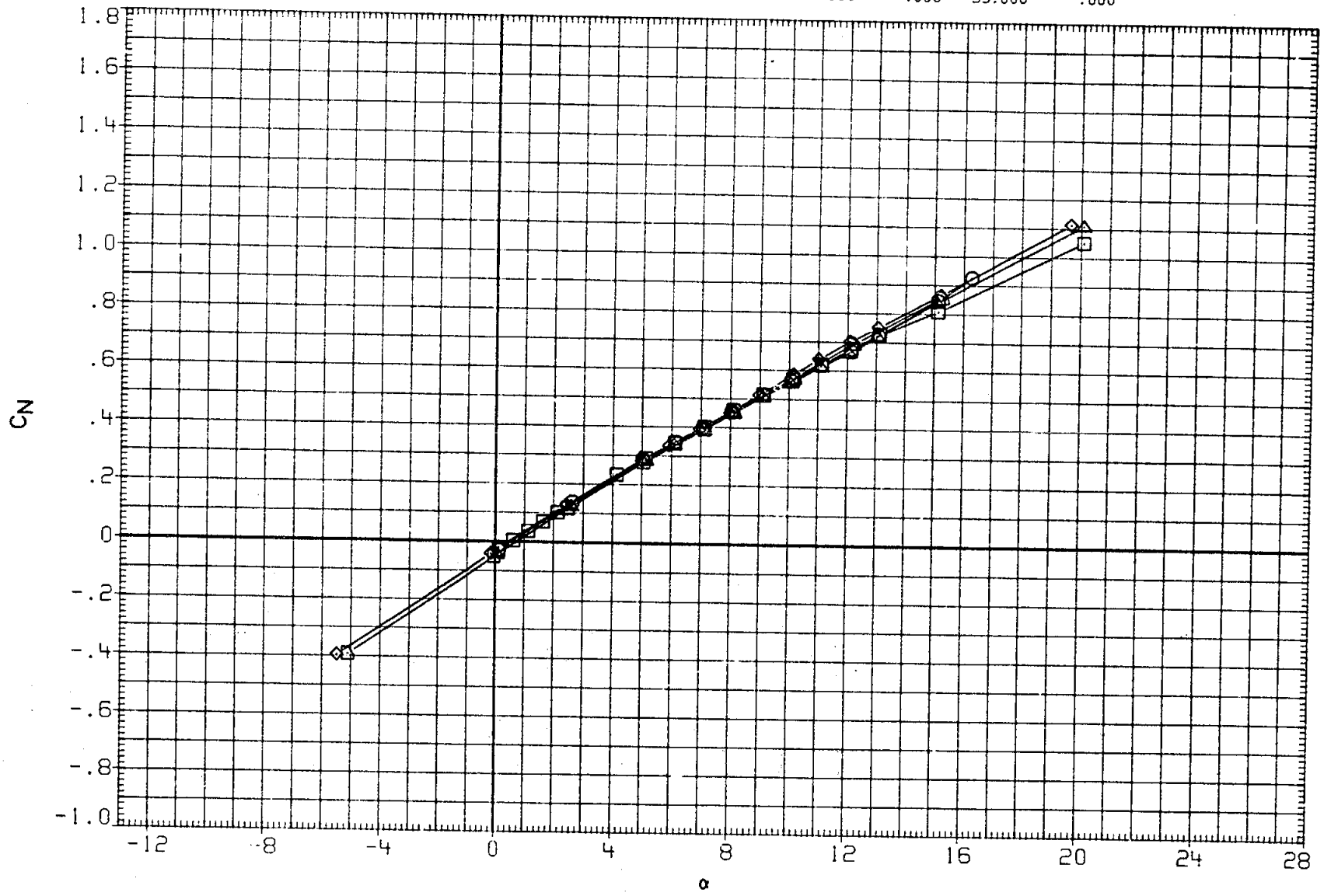

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0014	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	54.570	.060	.000
RKN031	◺	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	.000
R2F098	◻	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	55.000	.000	

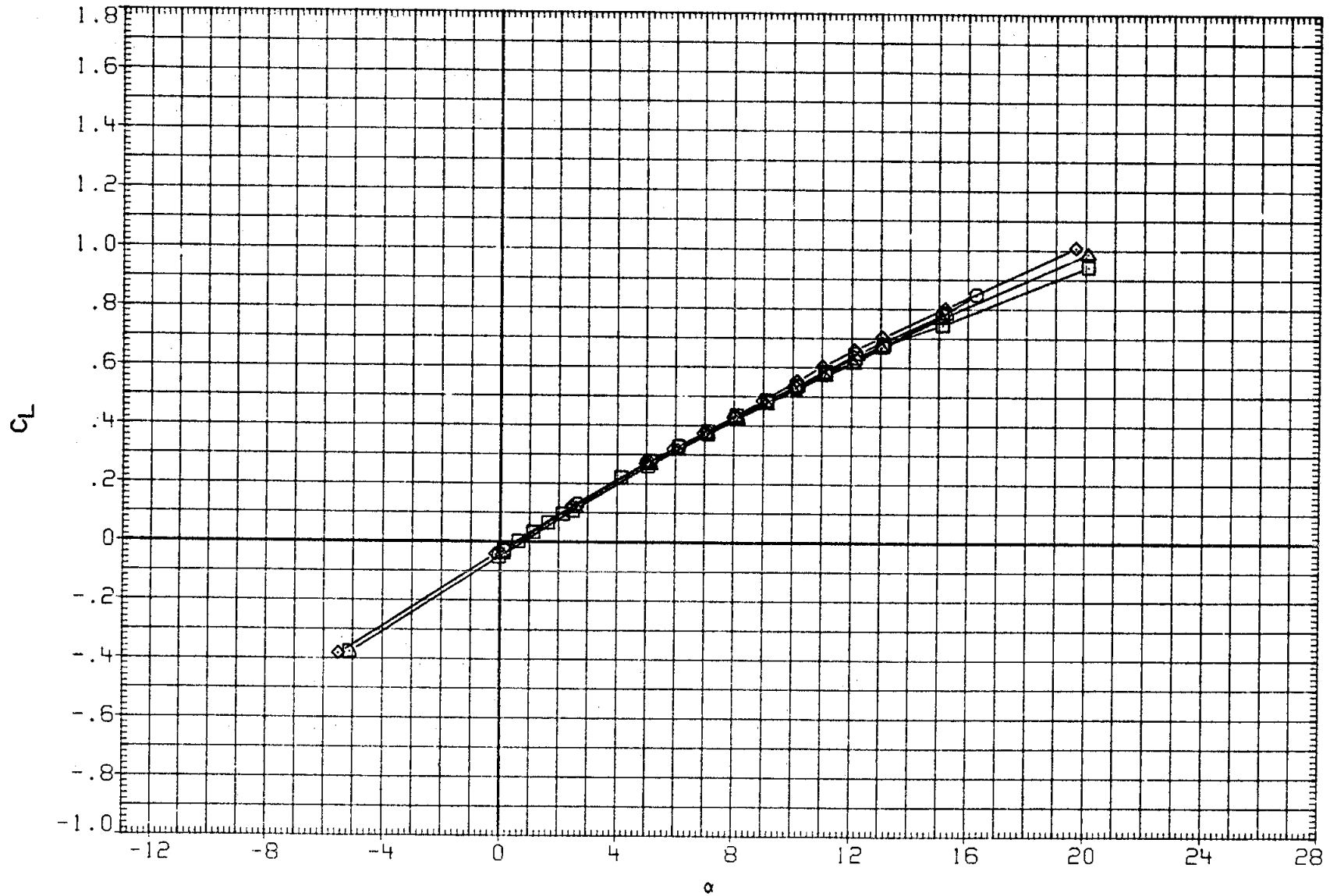

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0014	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	54.570	.060	.000
RKN031	◺	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	.000
R2F098	◻	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	55.000	.000	

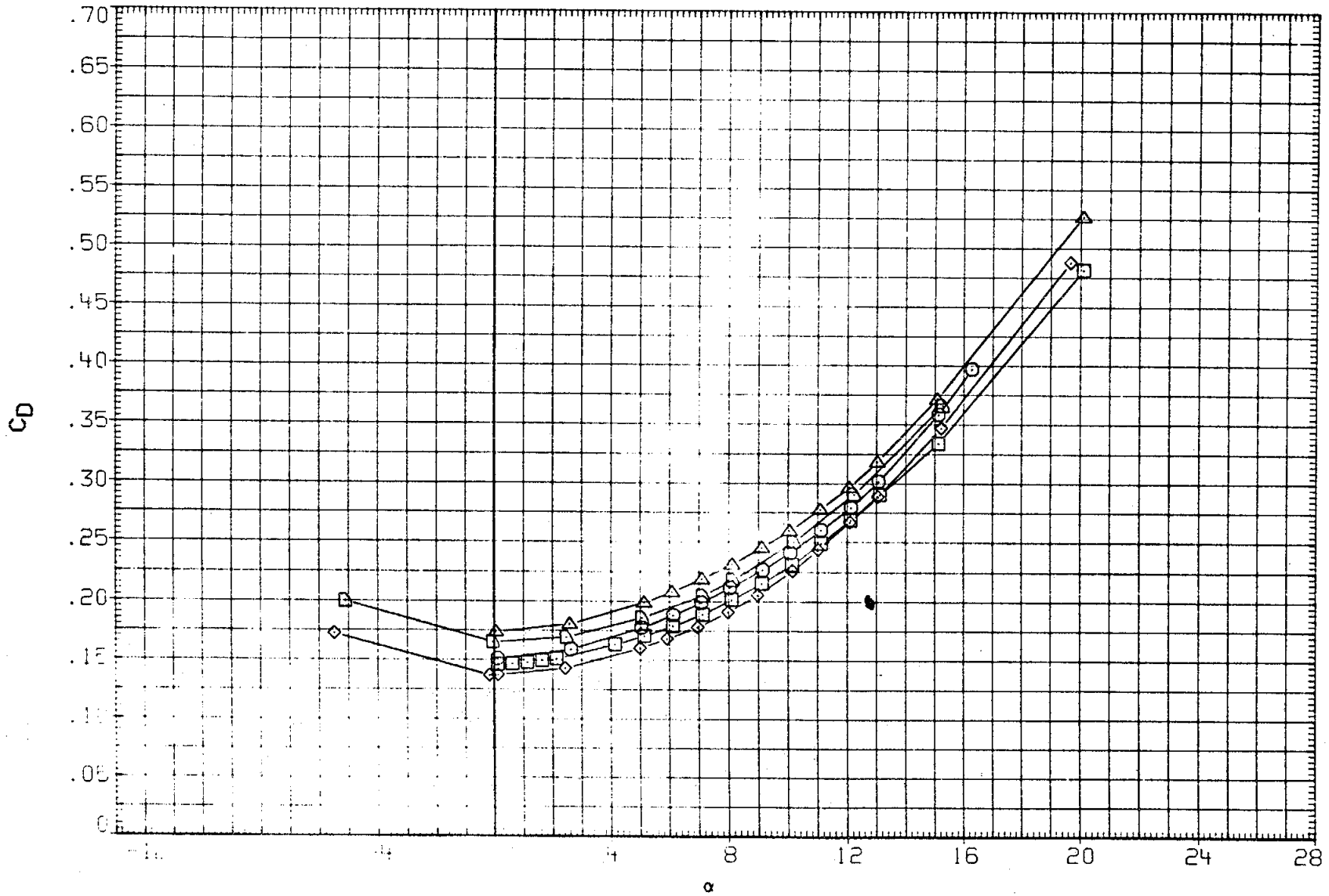

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	25.000	.000	
RK0014	△	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	54.570	.060	.000
RKN031	◺	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	.000
R2F098	D	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	55.000	.000	

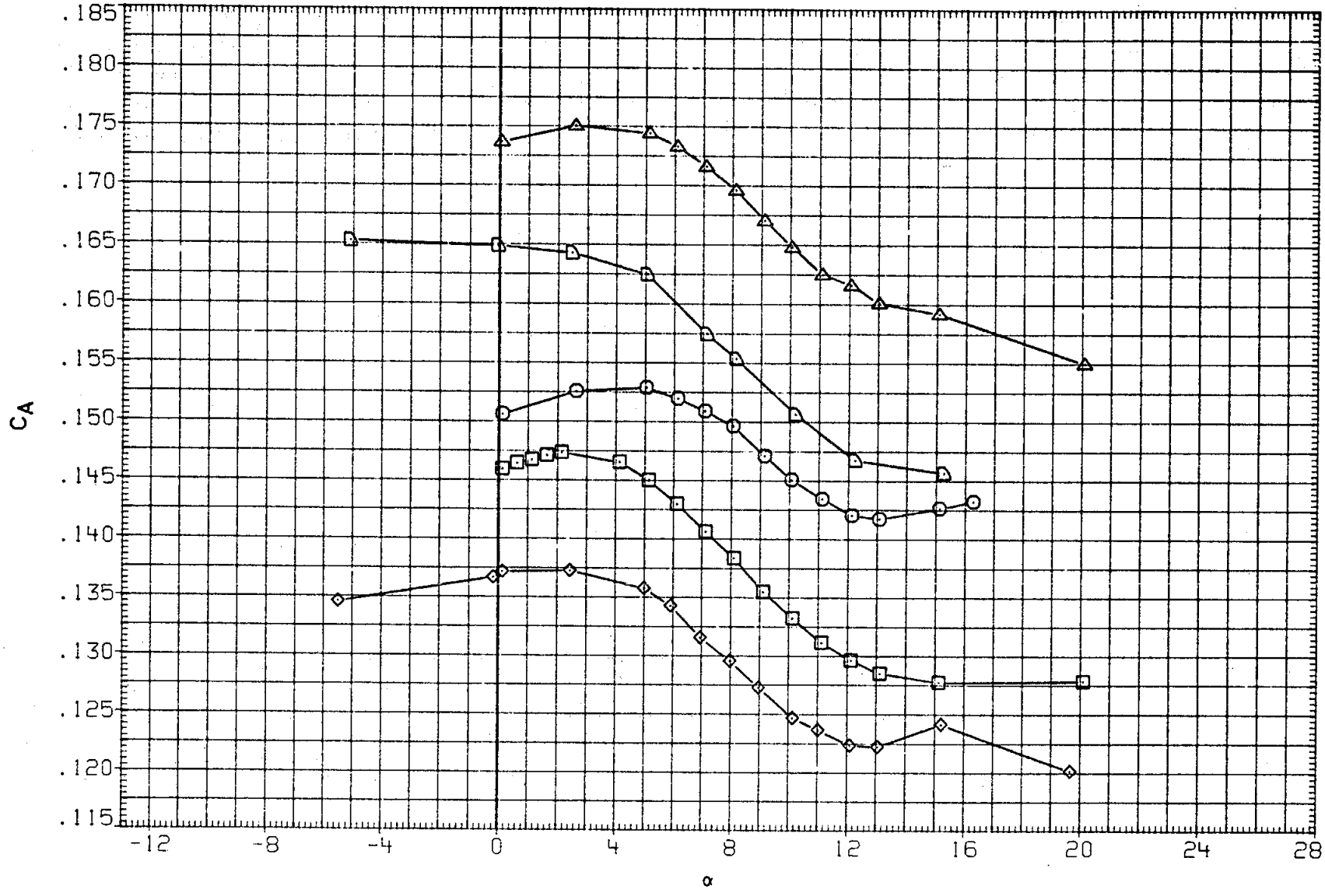

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	25.000	.000	
RK0014	△	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	54.570	.060	.000
RKN031	◺	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	.000
R2F098	◻	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	55.000	.000	

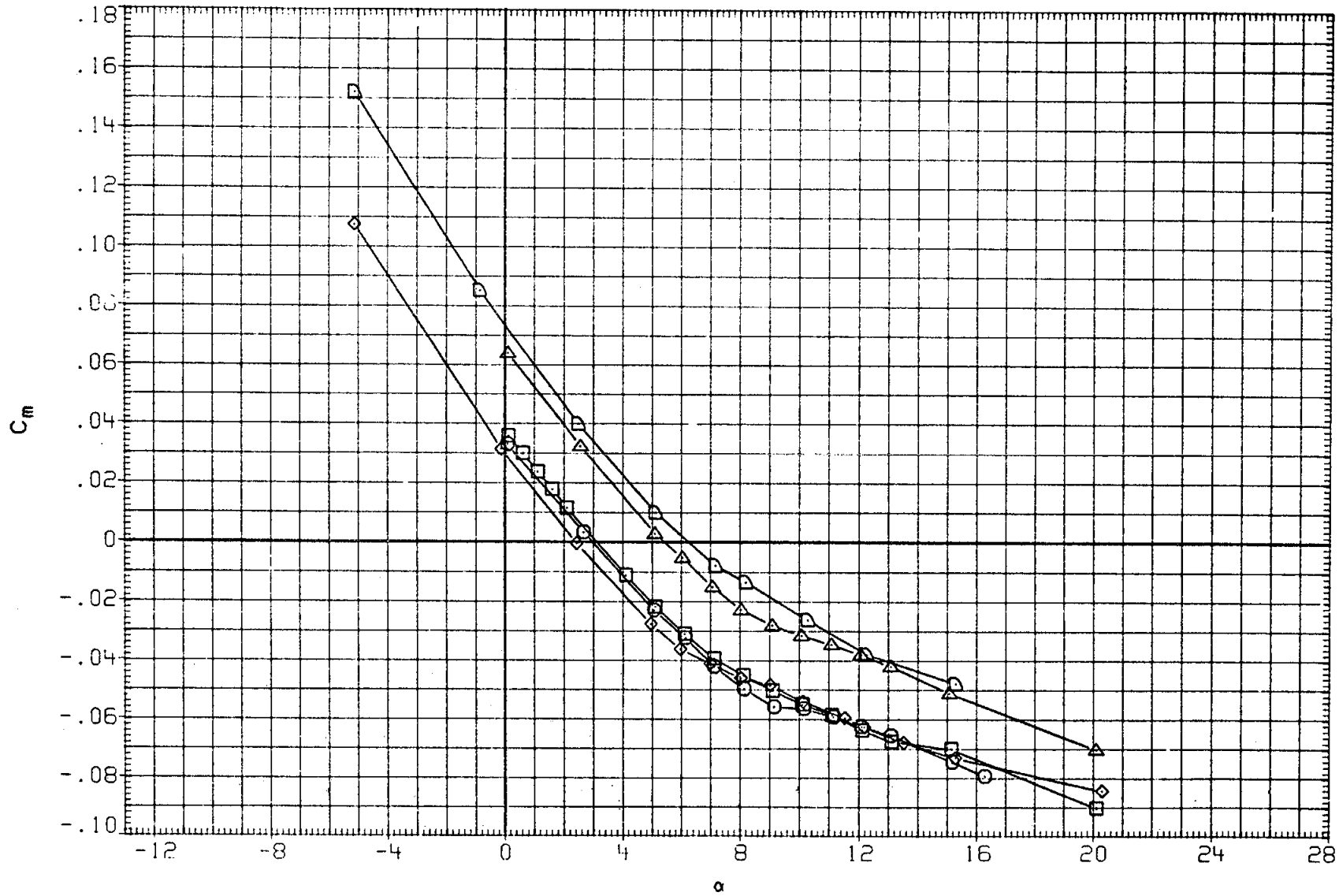

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0014	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	54.570	.060	.000
RKN031	◺	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	.000
R2F098	⬠	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	55.000	.000	

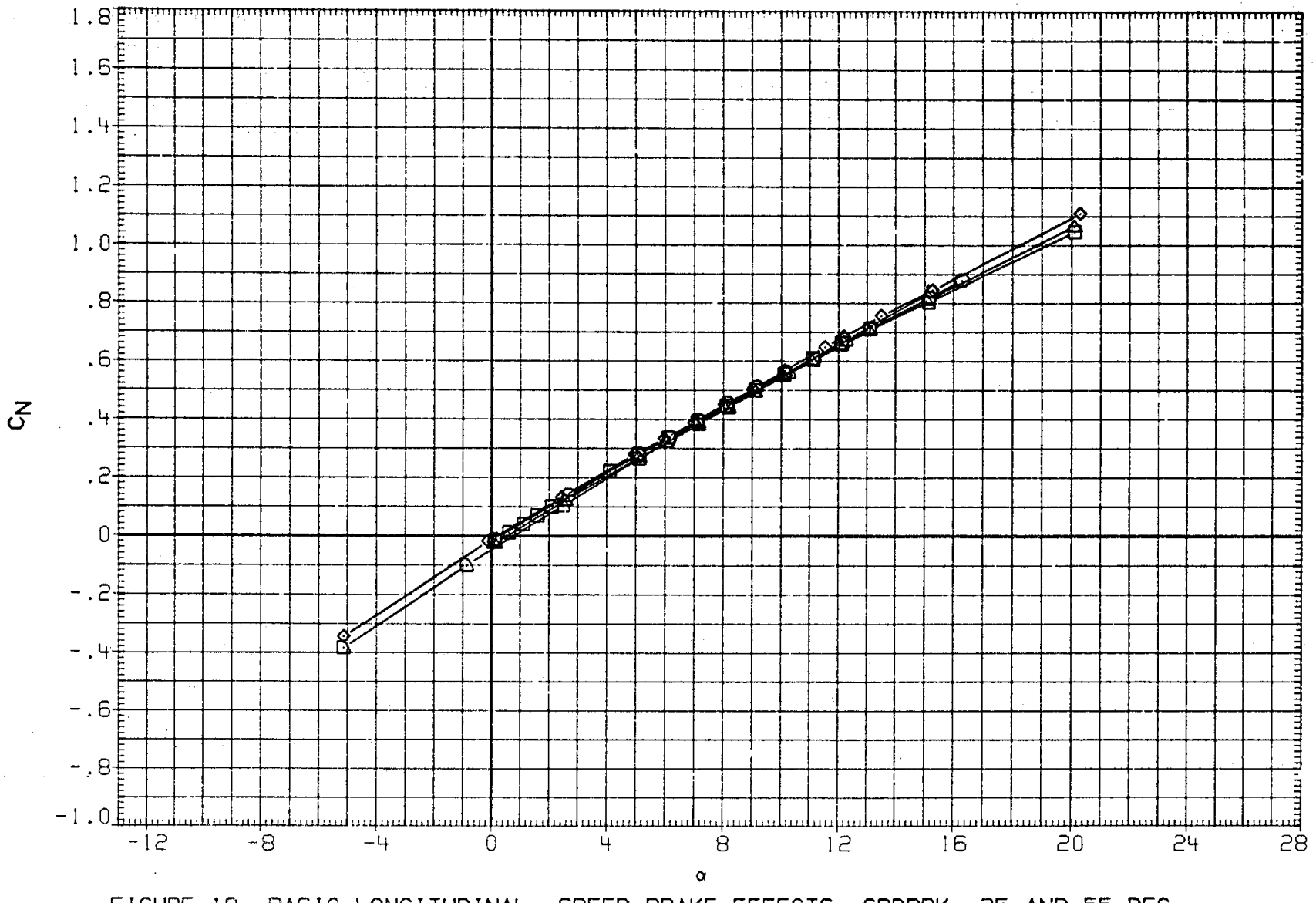

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKC003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKO014	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	54.570	.060	.000
RKN031	◁	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	.000
R2F098	▷	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	55.000	.000	

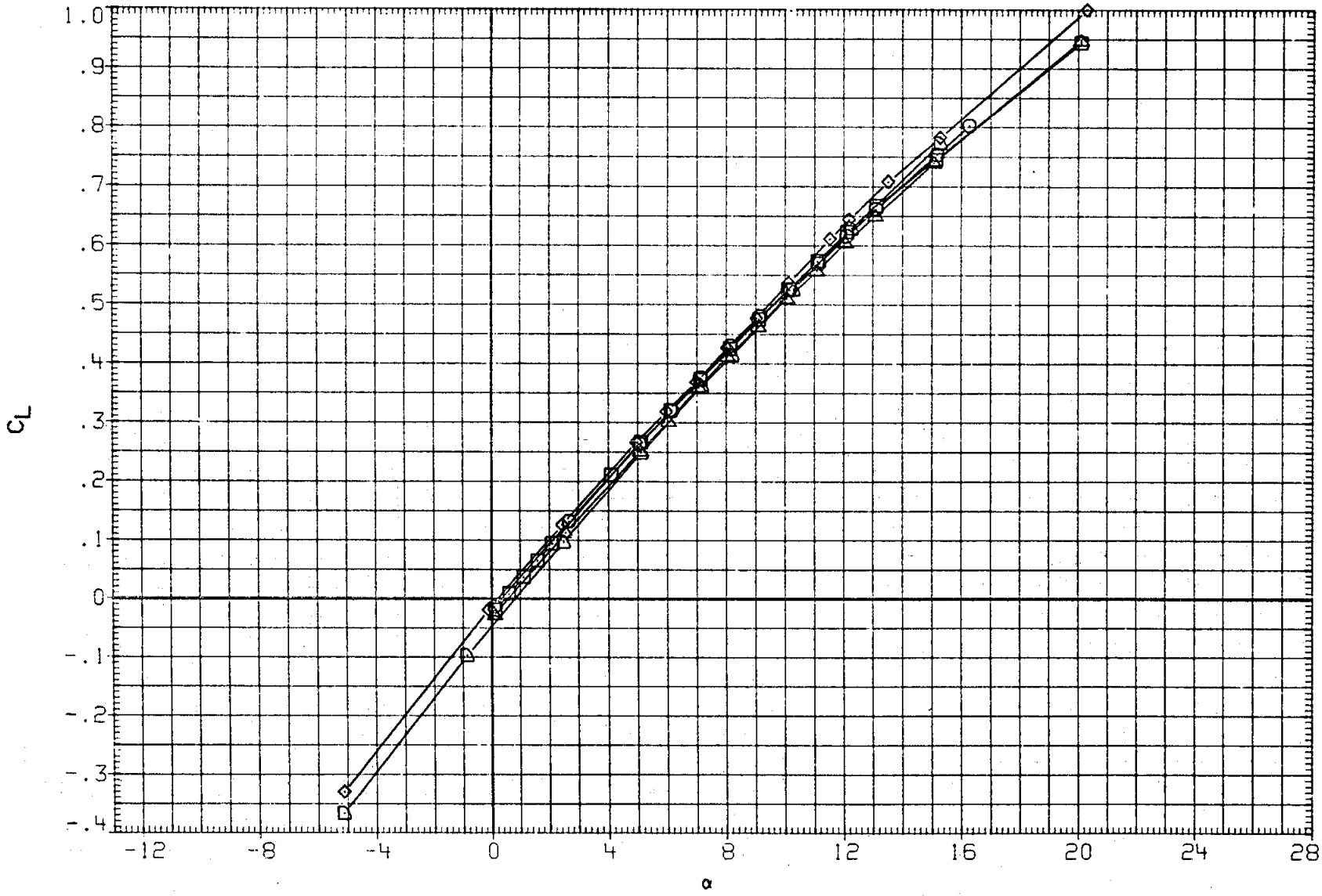

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	25.000	.000	
RK0014	△	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	54.570	.060	.000
RKN031	◺	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	.000
R2F098	◺	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	55.000	.000	

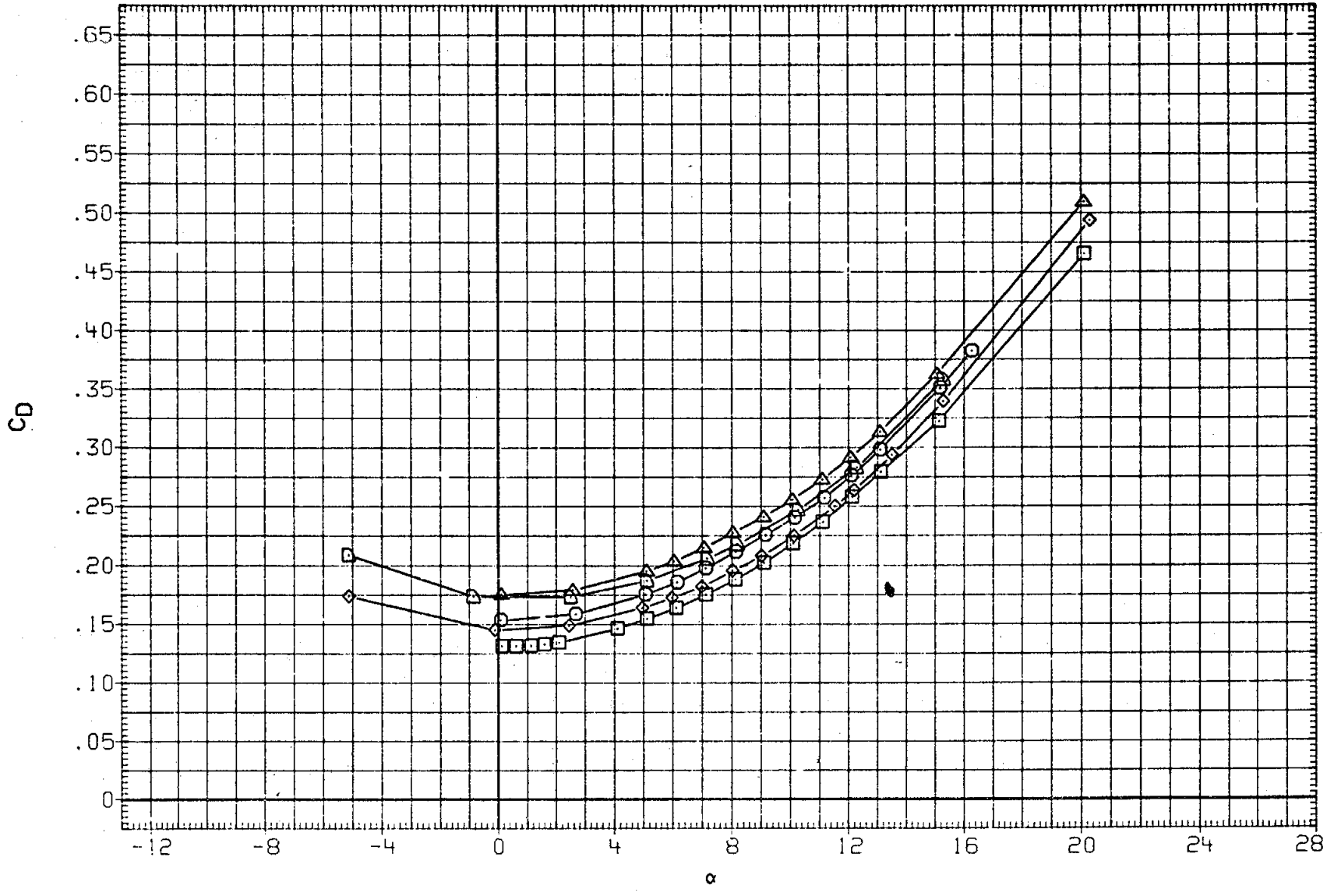

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0014	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	54.570	.060	.000
RKN031	◺	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	.000
R2F098	◗	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	55.000	.000	

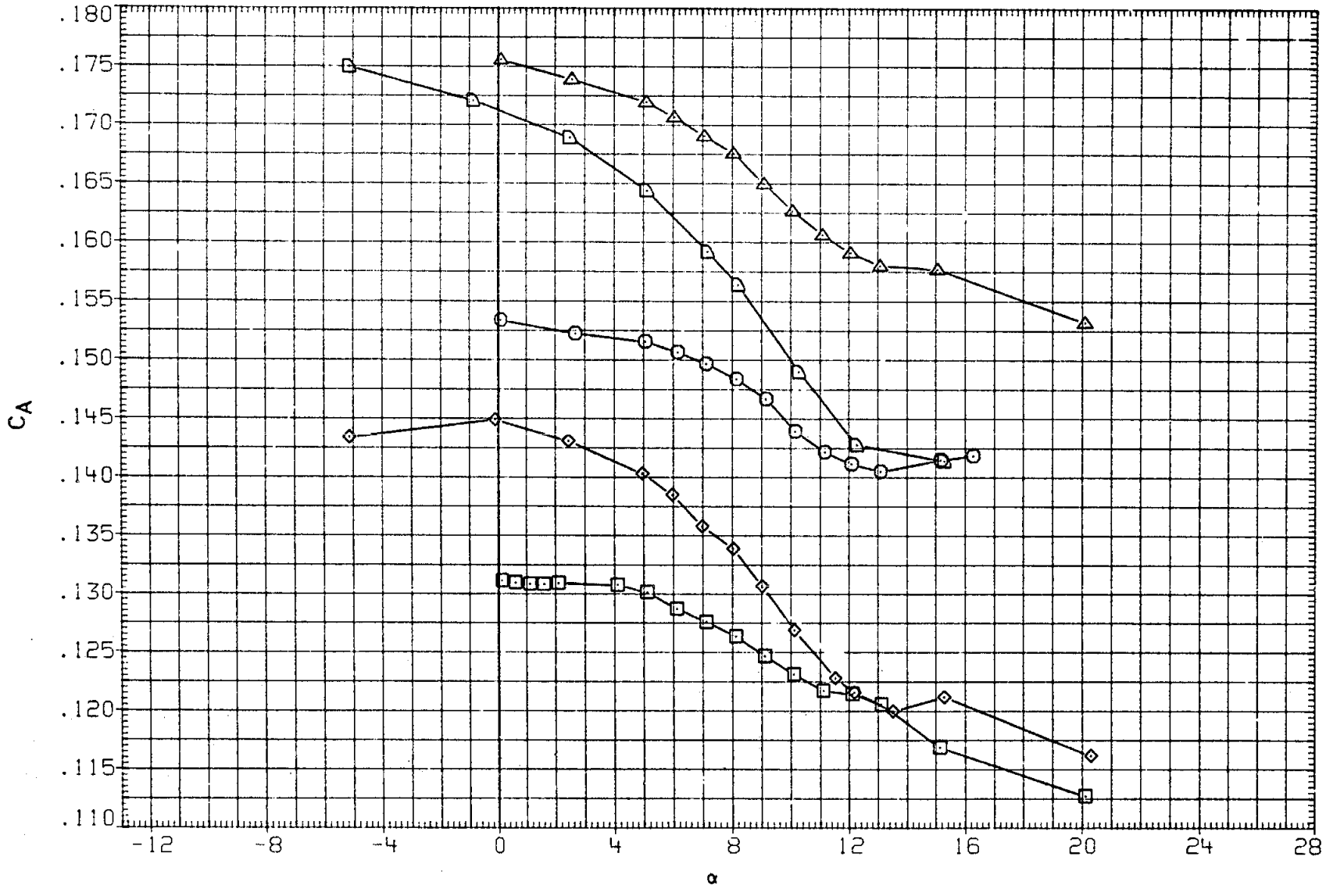

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RK0014	△	DATA NOT AVAILABLE	.000	.000	.000	.000	54.570	.060	.000
RKN031	◺	LARC 16FT TWT 325(OA270A) 39-0 ORB.	.000	.000	.000	.000	55.000	.000	.000
R2F098	D	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	

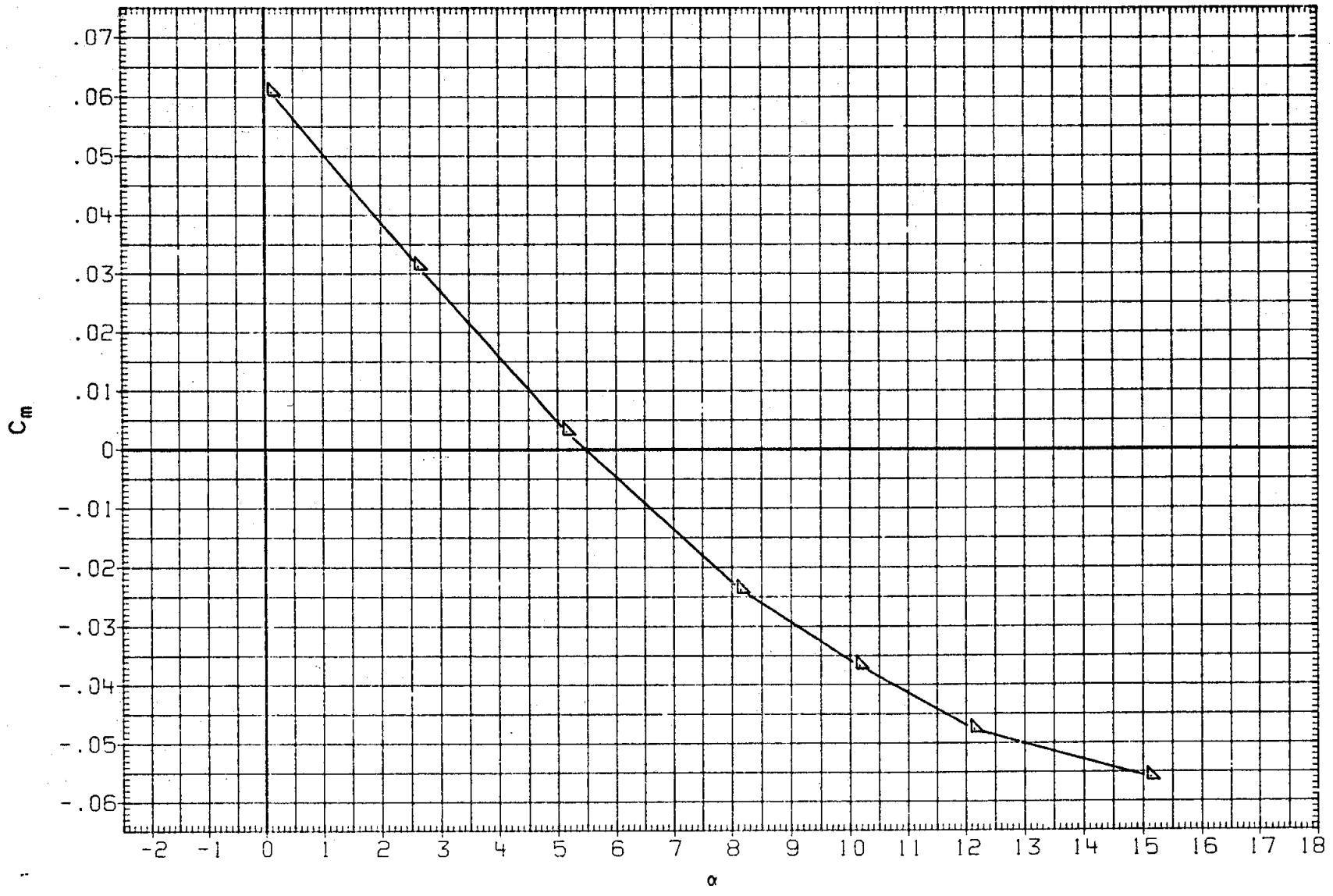

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(I)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RK0014	△	DATA NOT AVAILABLE	.000	.000	.000	.000	54.570	.060	.000
RKN031	◺	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	55.000	.000	.000
R2F098	◻	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	

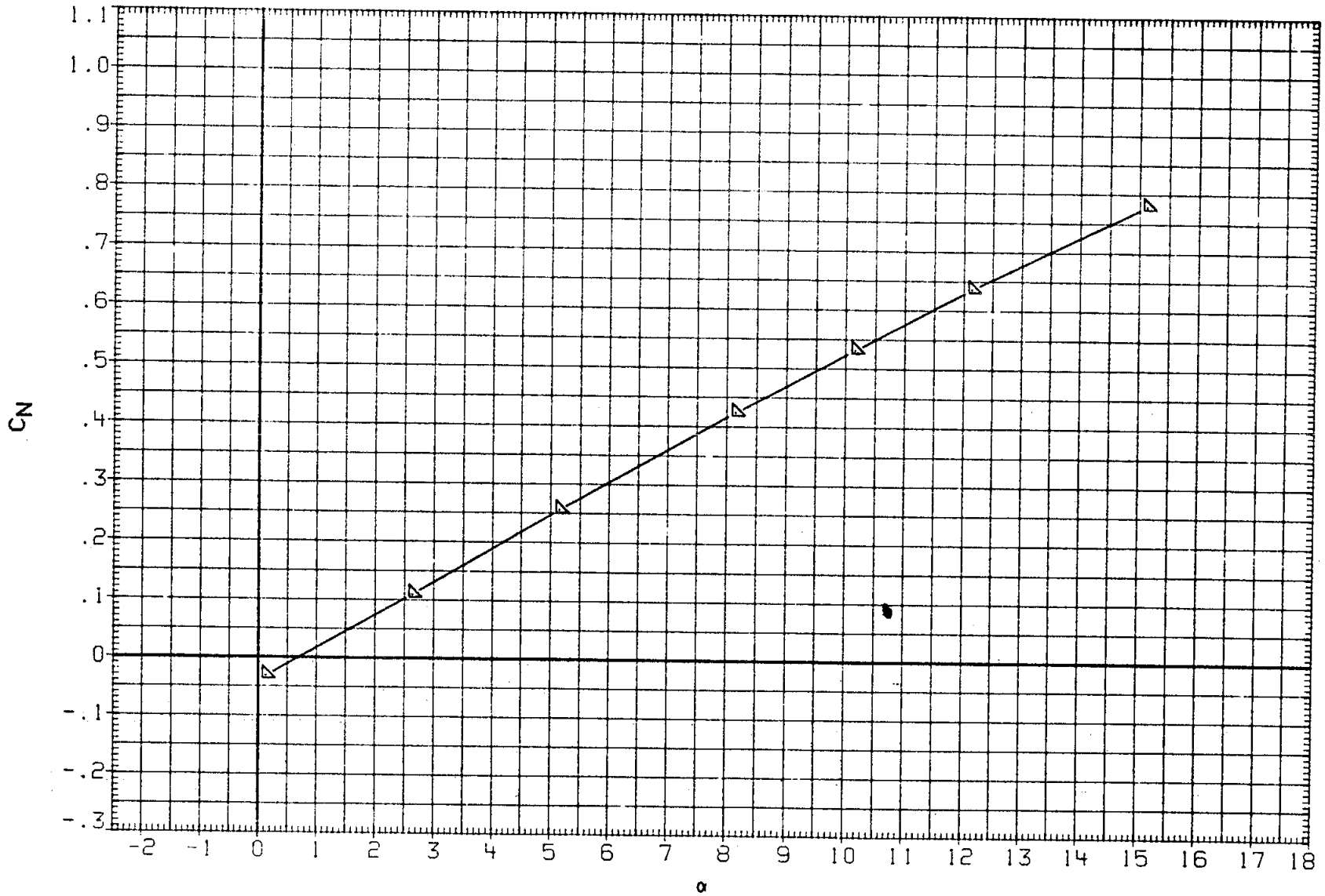

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(I)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RK0014	△	DATA NOT AVAILABLE	.000	.000	.000	.000	54.570	.060	.000
RKN031	◺	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	55.000	.000	.000
R2F098	D	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	

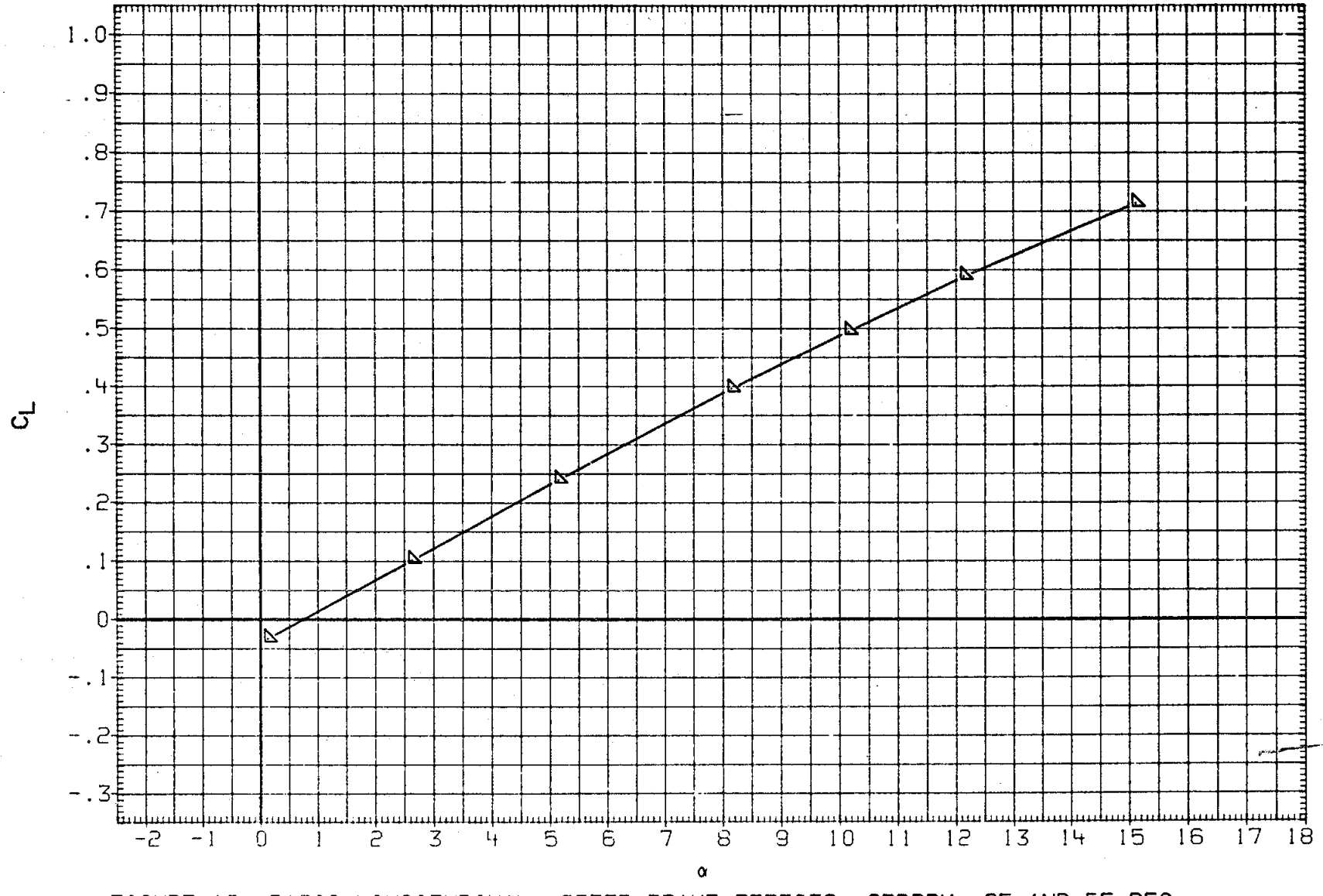

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(I)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RK0014	△	DATA NOT AVAILABLE	.000	.000	.000	.000	54.570	.060	.000
RKN031	◺	LARC 16FT TWT 3261(0A270A) 39-0 ORB.	.000	.000	.000	.000	55.000	.000	.000
R2F098	◻	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	

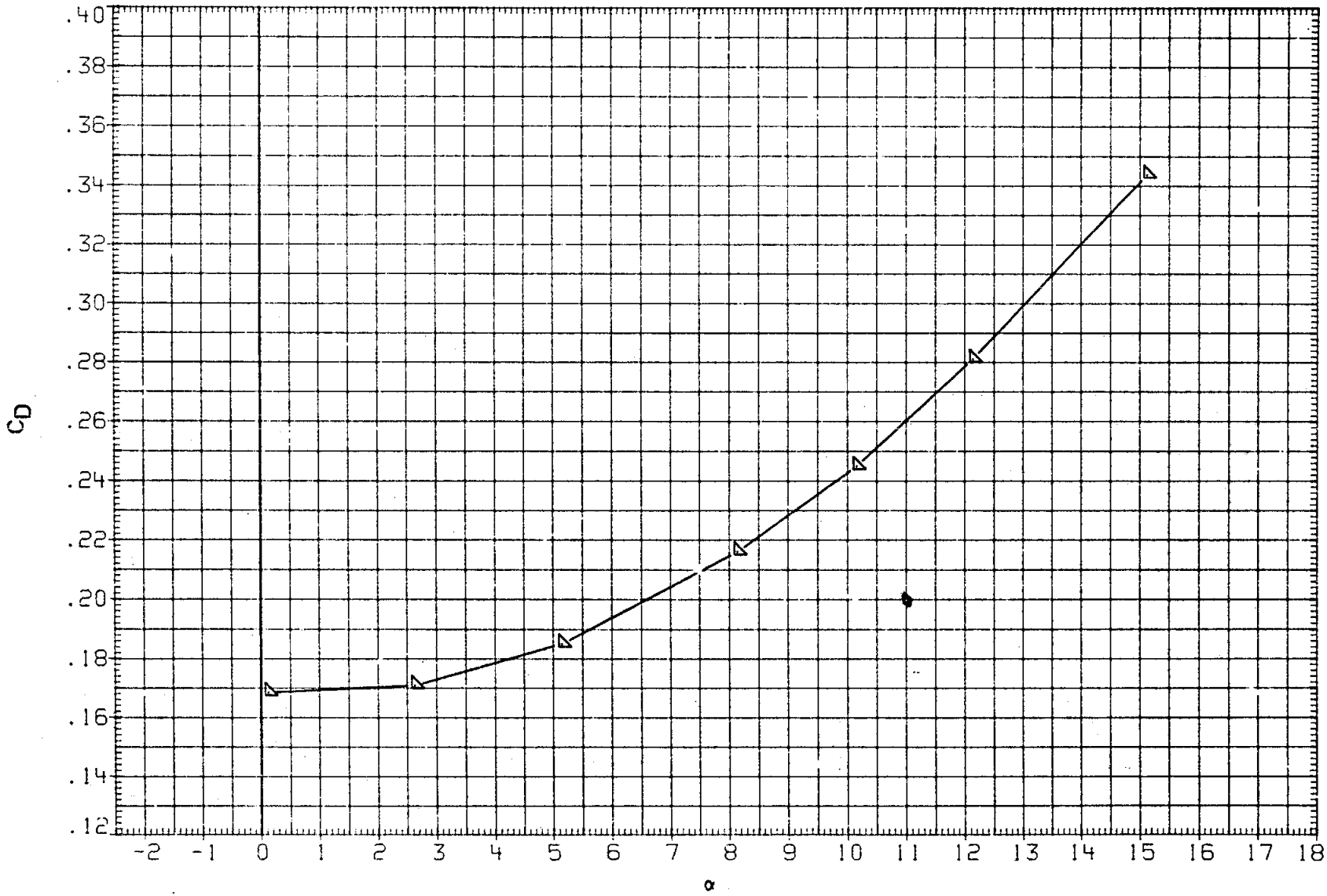

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(I)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RK0014	△	DATA NOT AVAILABLE	.000	.000	.000	.000	54.570	.060	.000
RKN031	◺	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	55.000	.000	.000
R2F098	D	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	

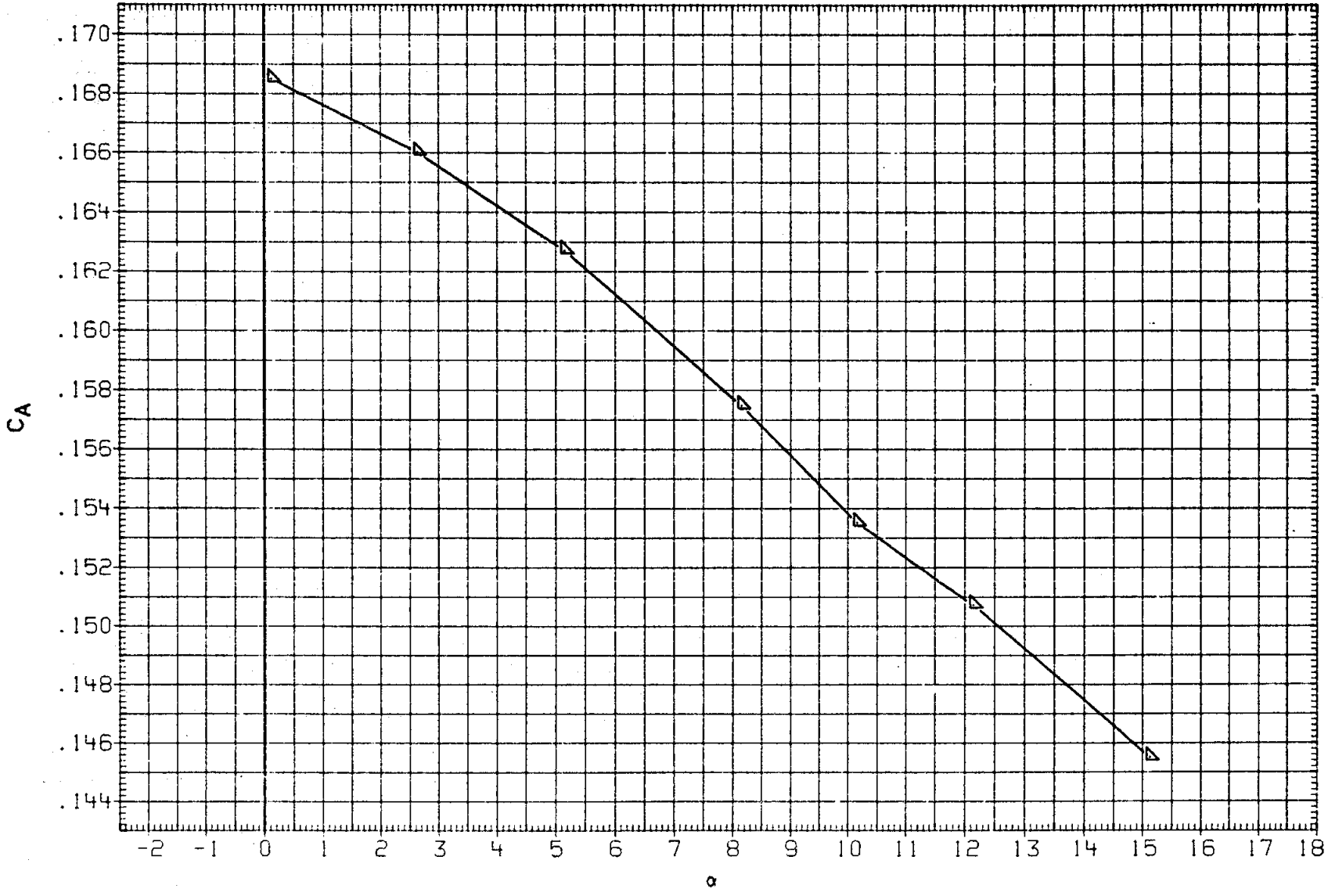

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(I)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	25.000	.000	
RK0014	△	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	54.570	.060	.000
RKN031	◺	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	.000
R2F098	◻	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	55.000	.000	

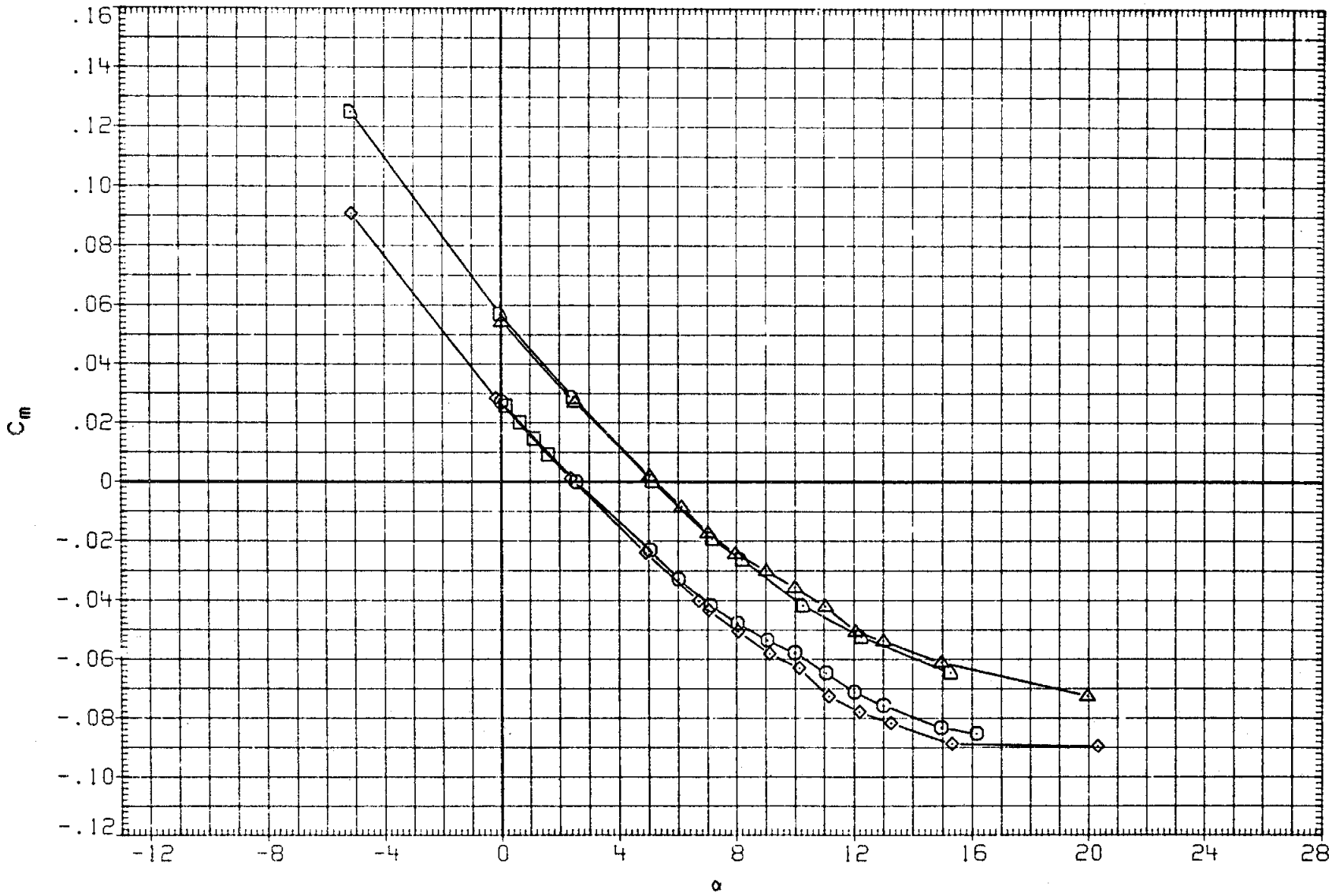

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(J)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0014	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	54.570	.060	.000
RKN031	◺	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	.000
R2F098	D	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	55.000	.000	

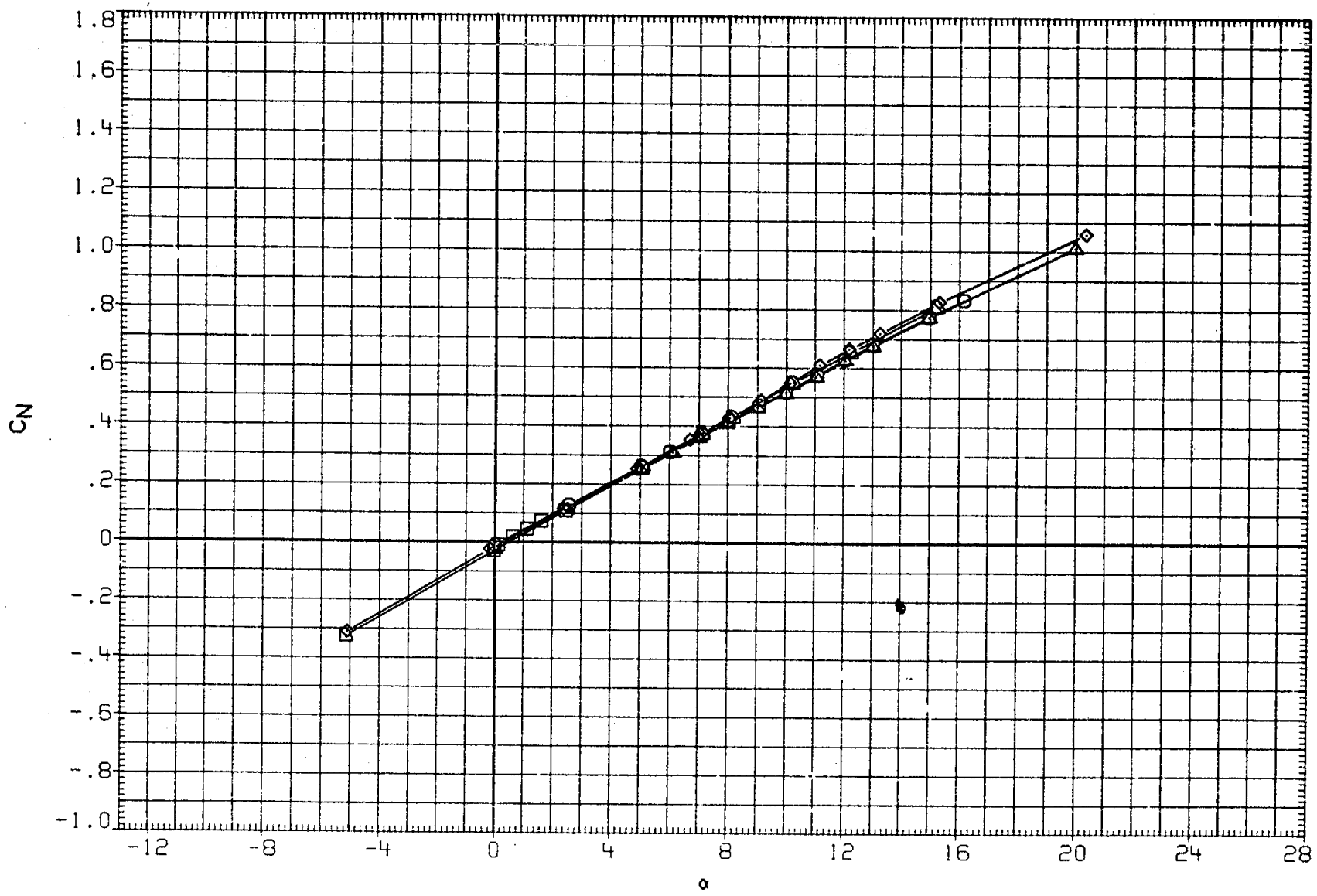

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(J)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	25.000	.000	
RK0014	△	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	54.570	.060	.000
RKN031	◺	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	.000
R2F098	▱	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	55.000	.000	

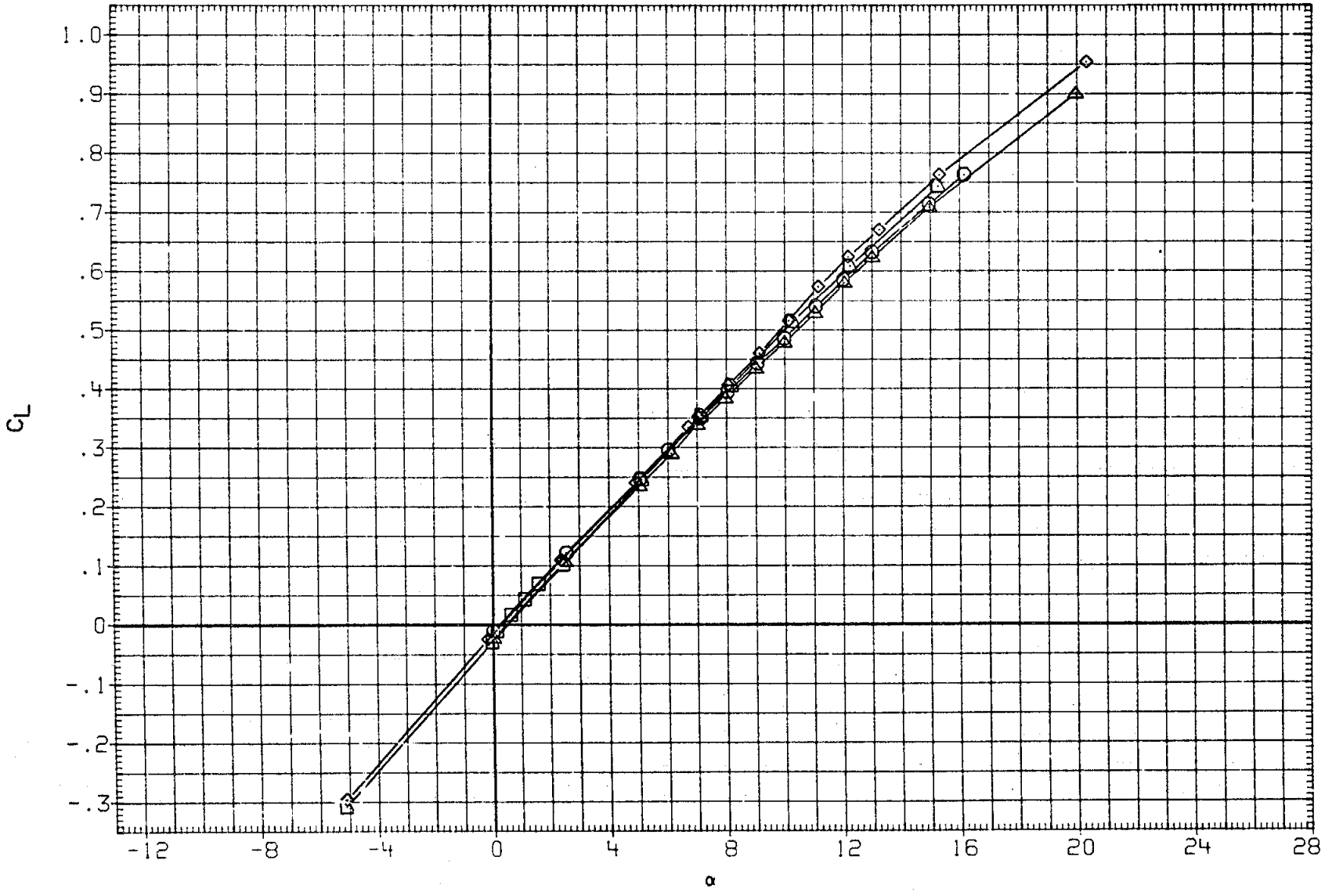

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(J)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0014	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	54.570	.060	.000
RKN031	◺	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	.000
R2F098	D	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	55.000	.000	

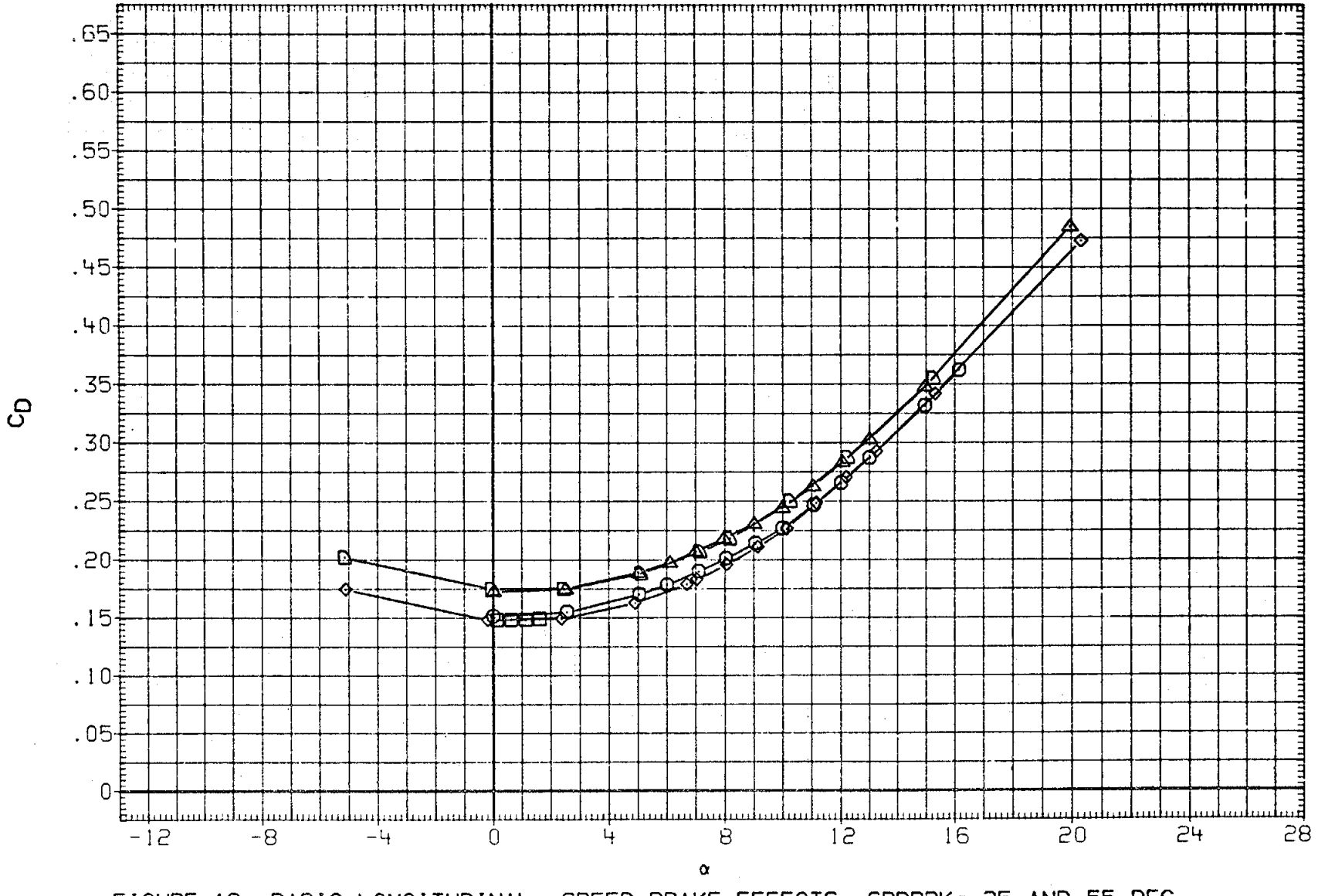

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(J)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0014	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	54.570	.060	.000
RKN031	▷	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	.000
R2F098	D	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	55.000	.000	

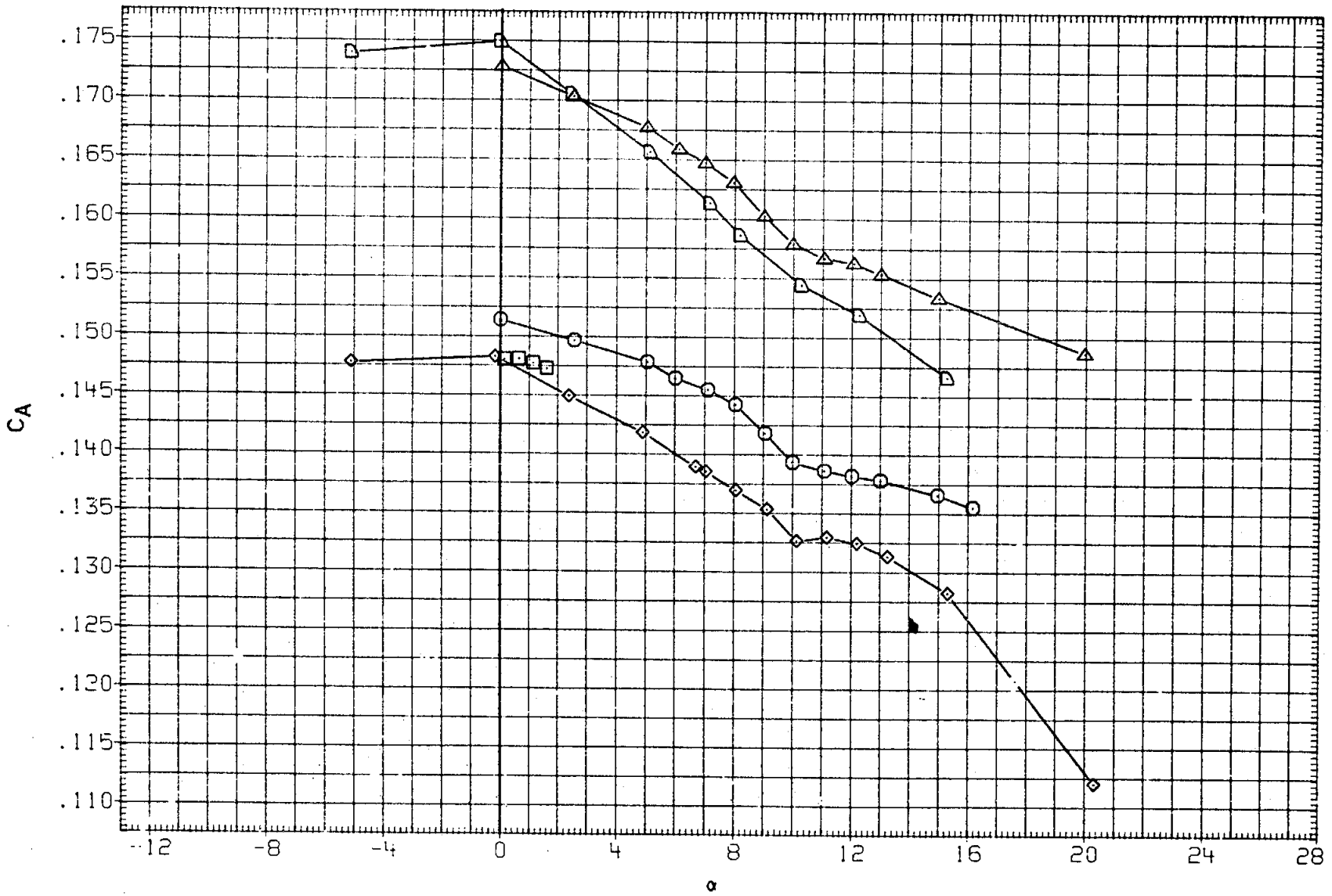

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(J)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	25.000	.000	
RK0014	△	DATA NOT AVAILABLE	.000	.000	.000	.000	54.570	.060	.000
RKN031	◺	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	.000
R2F098	D	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	55.000	.000	

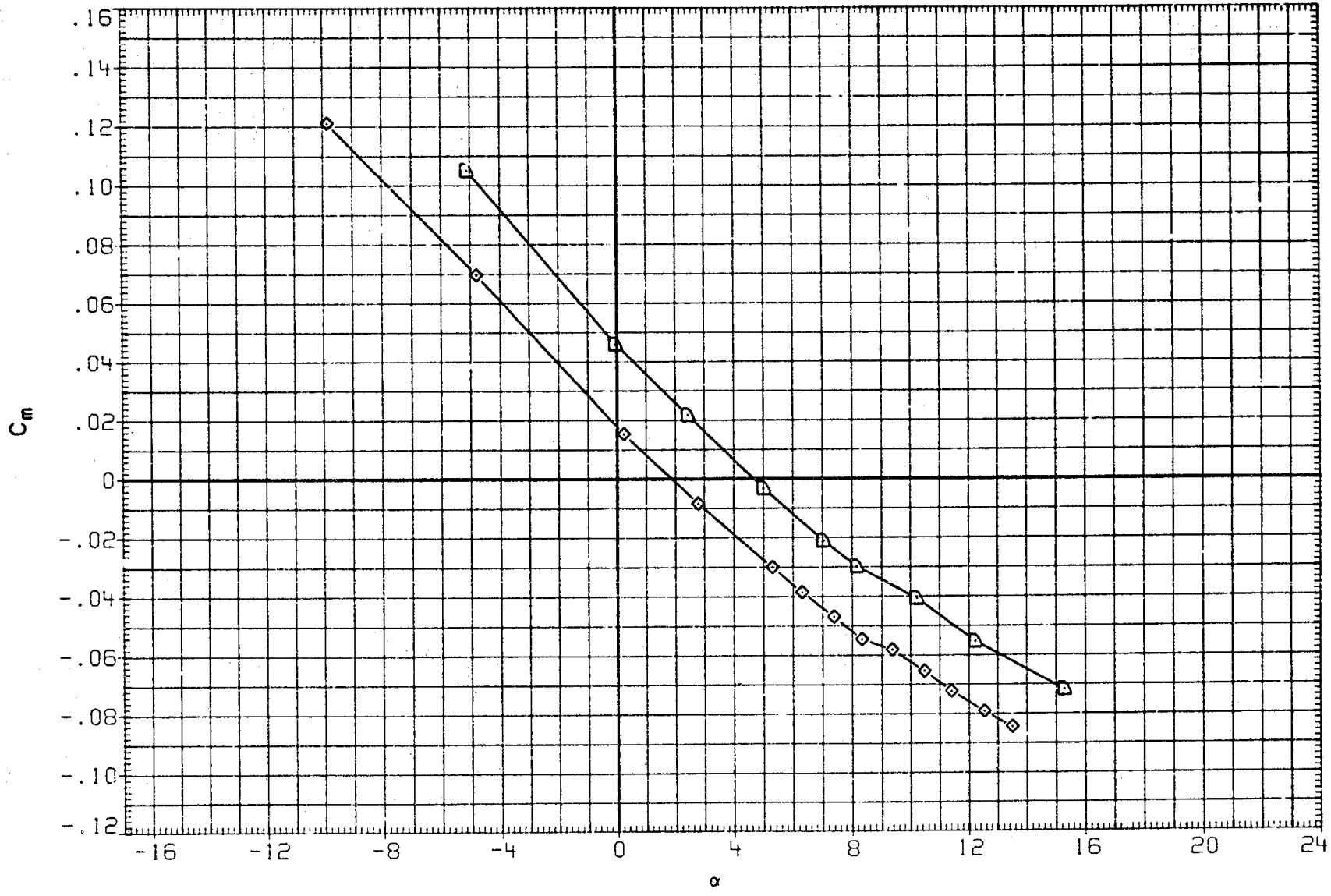

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(K)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	25.000	.000	
RK0014	△	DATA NOT AVAILABLE	.000	.000	.000	.000	54.570	.060	.000
RKN031	▷	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	.000
R2F098	D	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	55.000	.000	

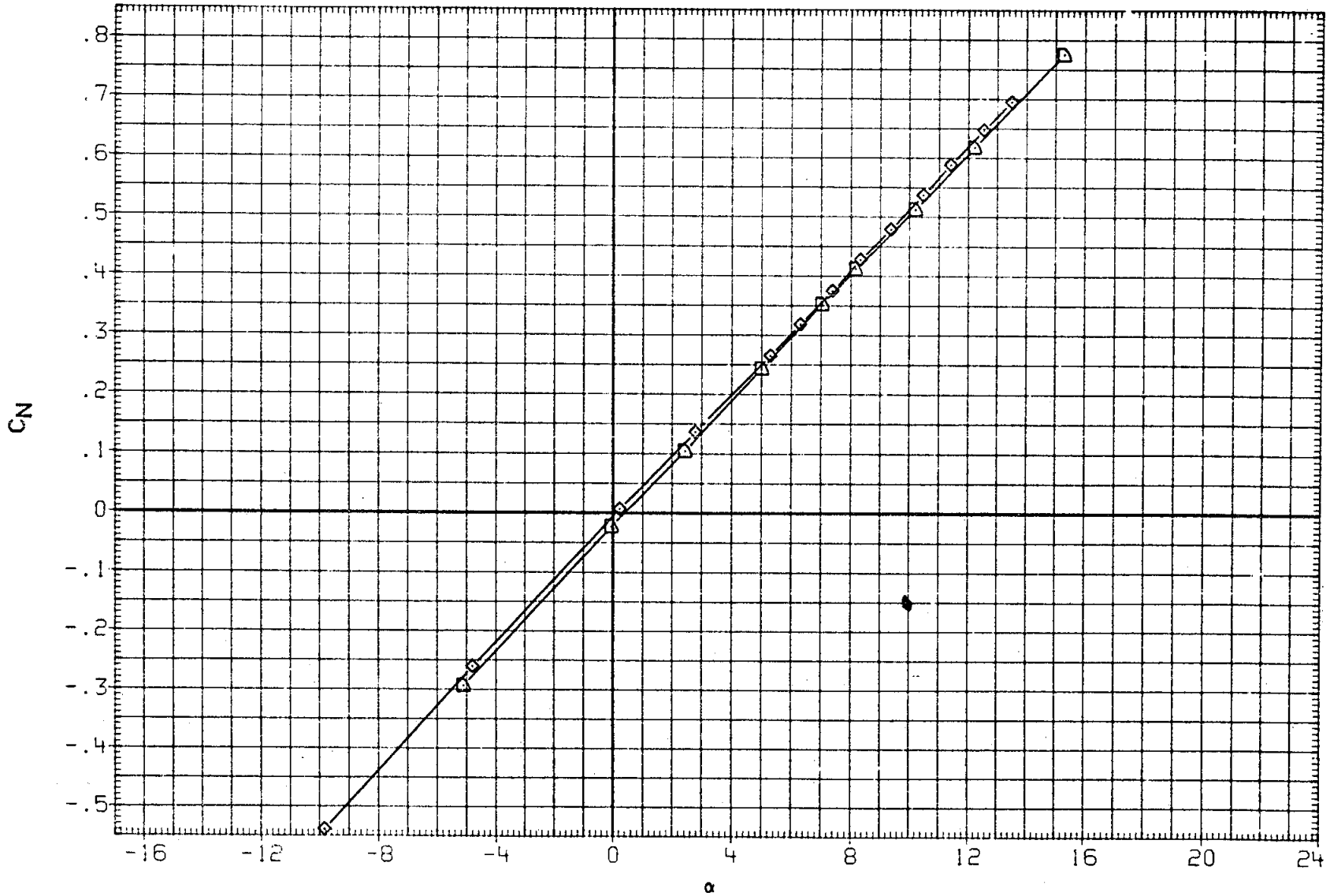

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(K)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0014	△	DATA NOT AVAILABLE	.000	.000	.000	.000	54.570	.060	.000
RKN031	◺	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	.000
R2F098	D	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	55.000	.000	

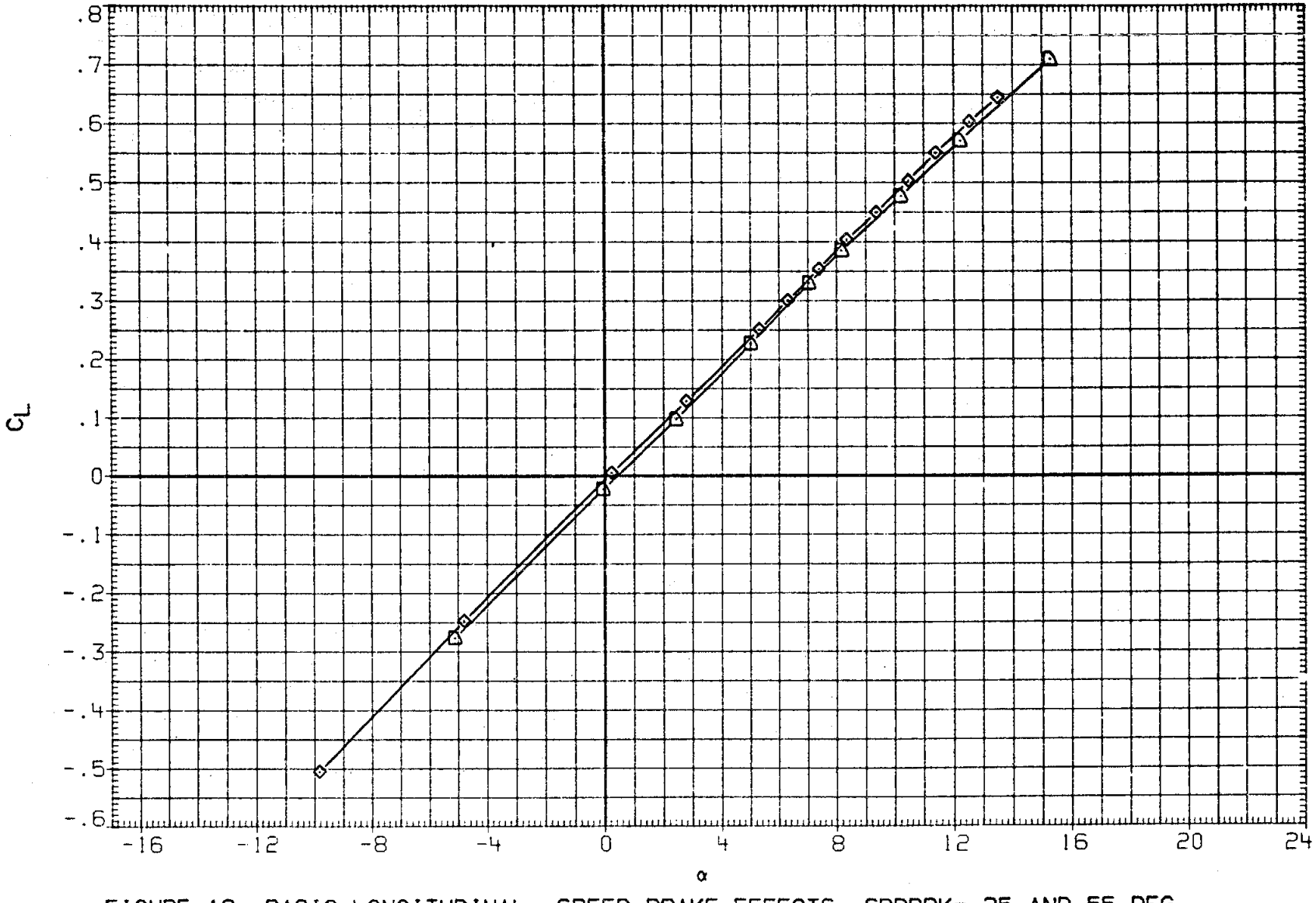

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(K)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0014	△	DATA NOT AVAILABLE	.000	.000	.000	.000	54.570	.060	.000
RKN031	◺	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	.000
R2F098	D	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	55.000	.000	

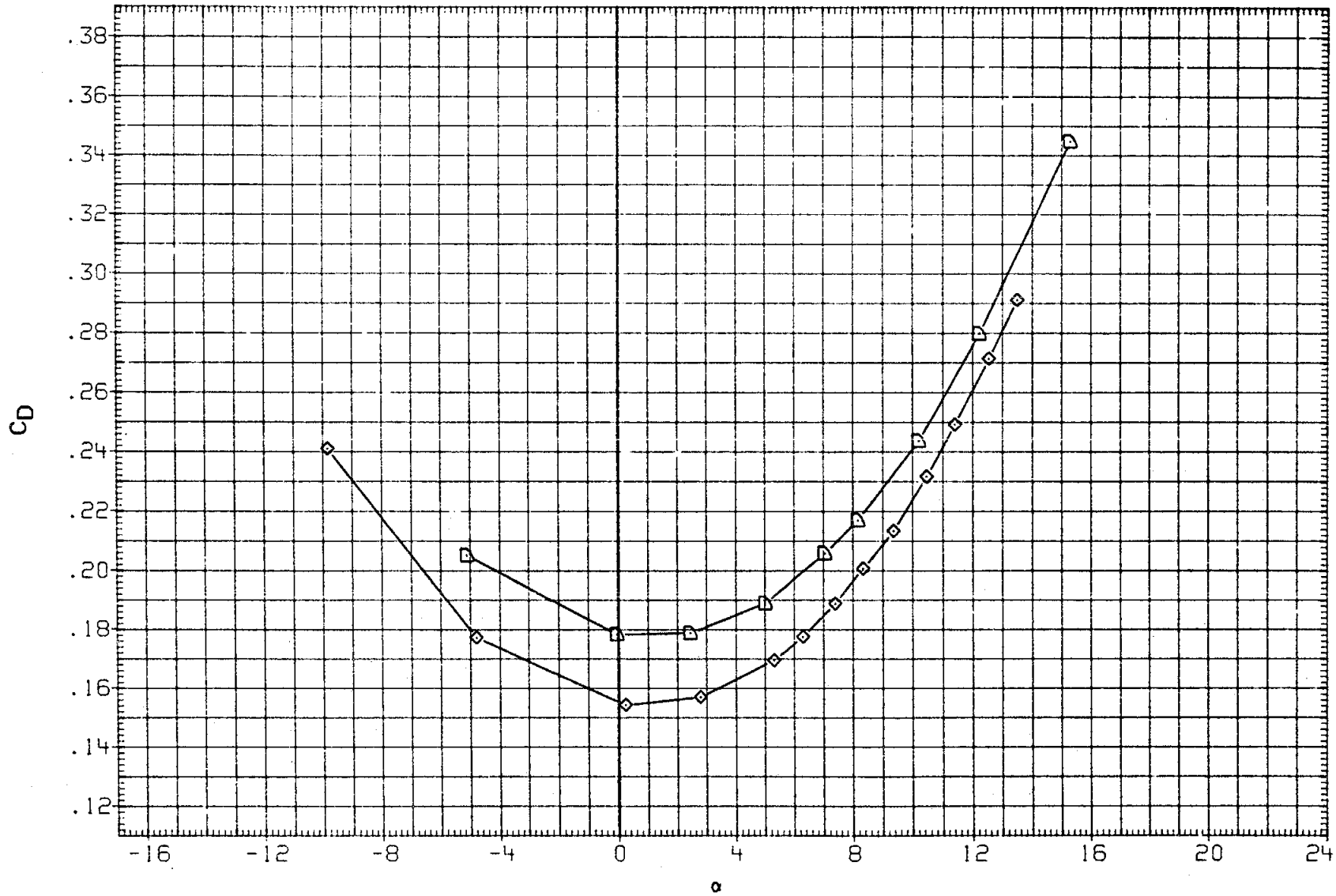

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(K)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0014	△	DATA NOT AVAILABLE	.000	.000	.000	.000	54.570	.060	.000
RKN031	◁	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	.000
R2F098	D	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	55.000	.000	

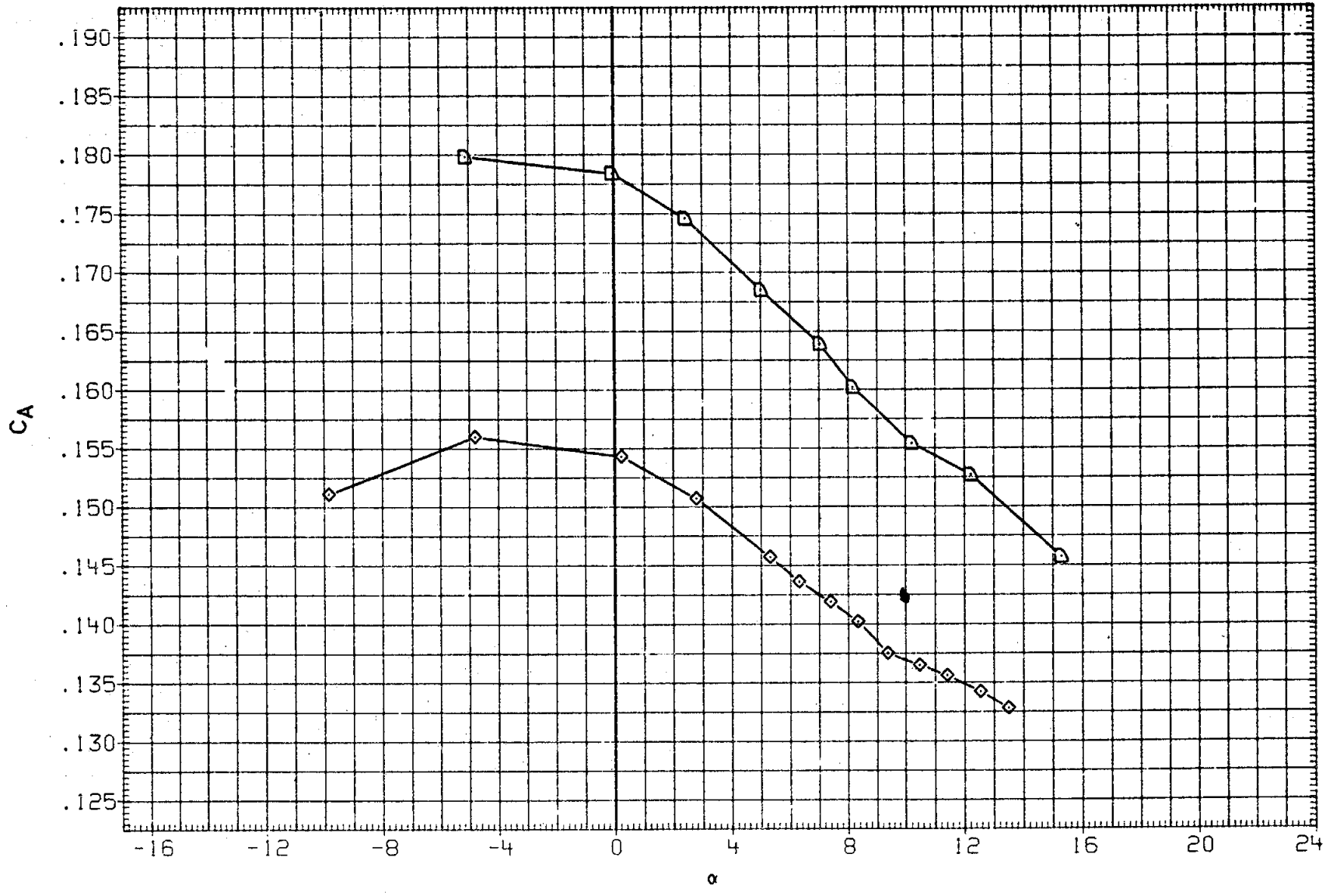

FIGURE 19. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 55 DEG.

(K)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(0A270A) 30-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	25.000	.000	
RK0015	△	DATA NOT AVAILABLE	.000	.000	.000	.000	86.810	-.040	.000
R2F085	◺	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	87.200	.000	

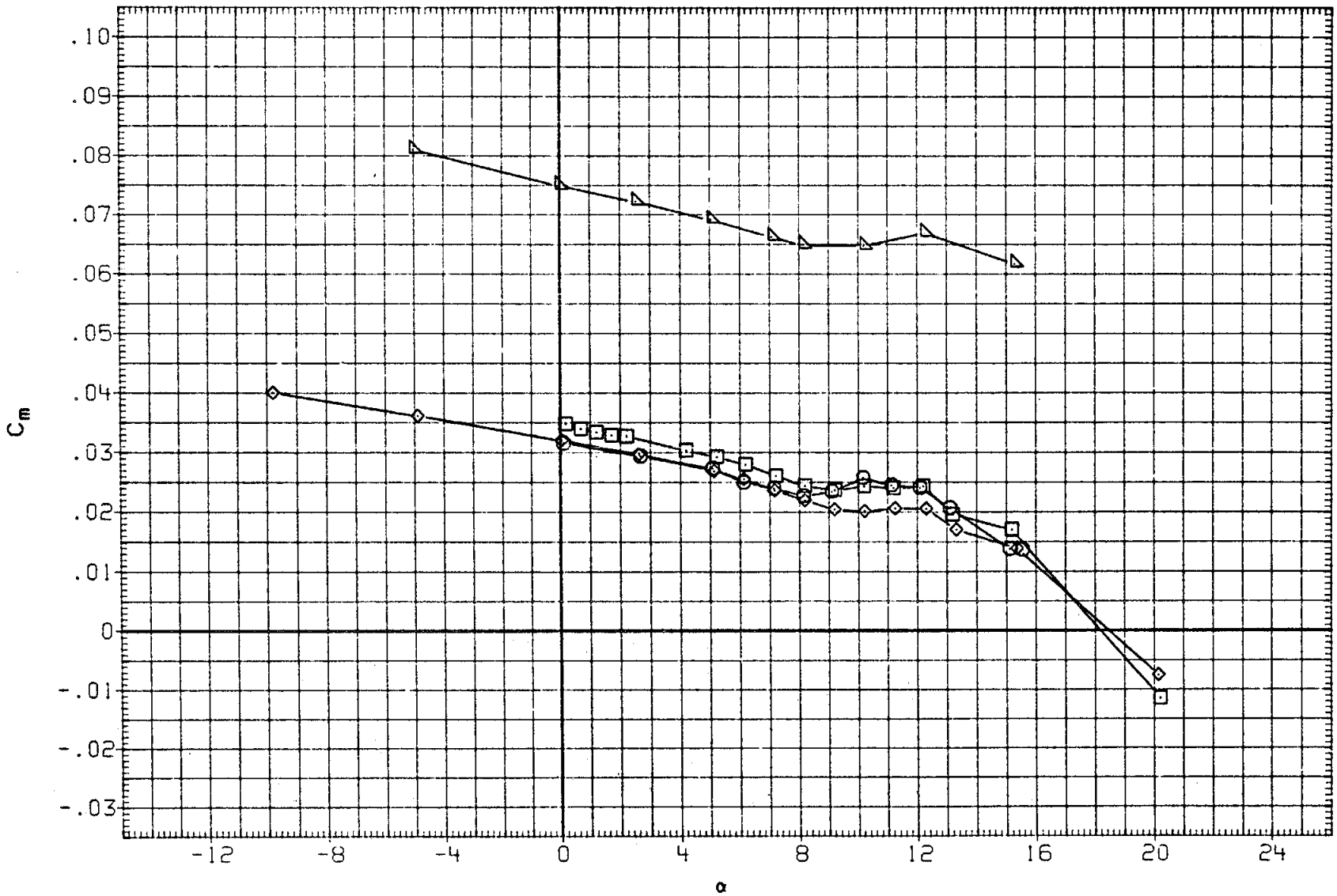

FIGURE 20. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SFDBRK= 25 AND 87.2 DEG.

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	SETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
PKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0015	△	DATA NOT AVAILABLE	.000	.000	.000	.000	86.810	-.040	.000
R2F0B5	◁	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	87.200	.000	

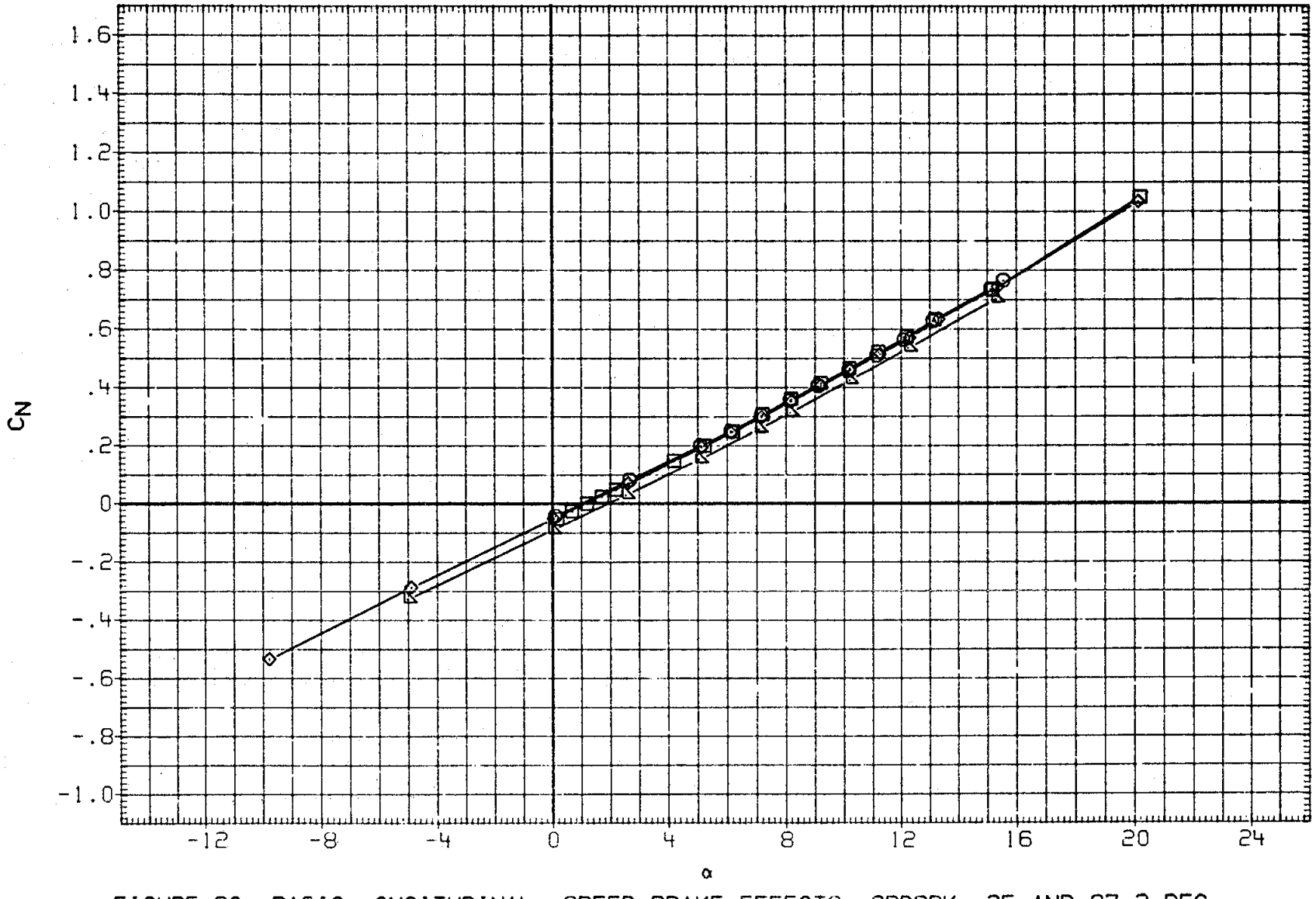

FIGURE 20. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 87.2 DEG.

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0015	△	DATA NOT AVAILABLE	.000	.000	.000	.000	86.810	-.040	.000
R2F085	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	87.200	.000	

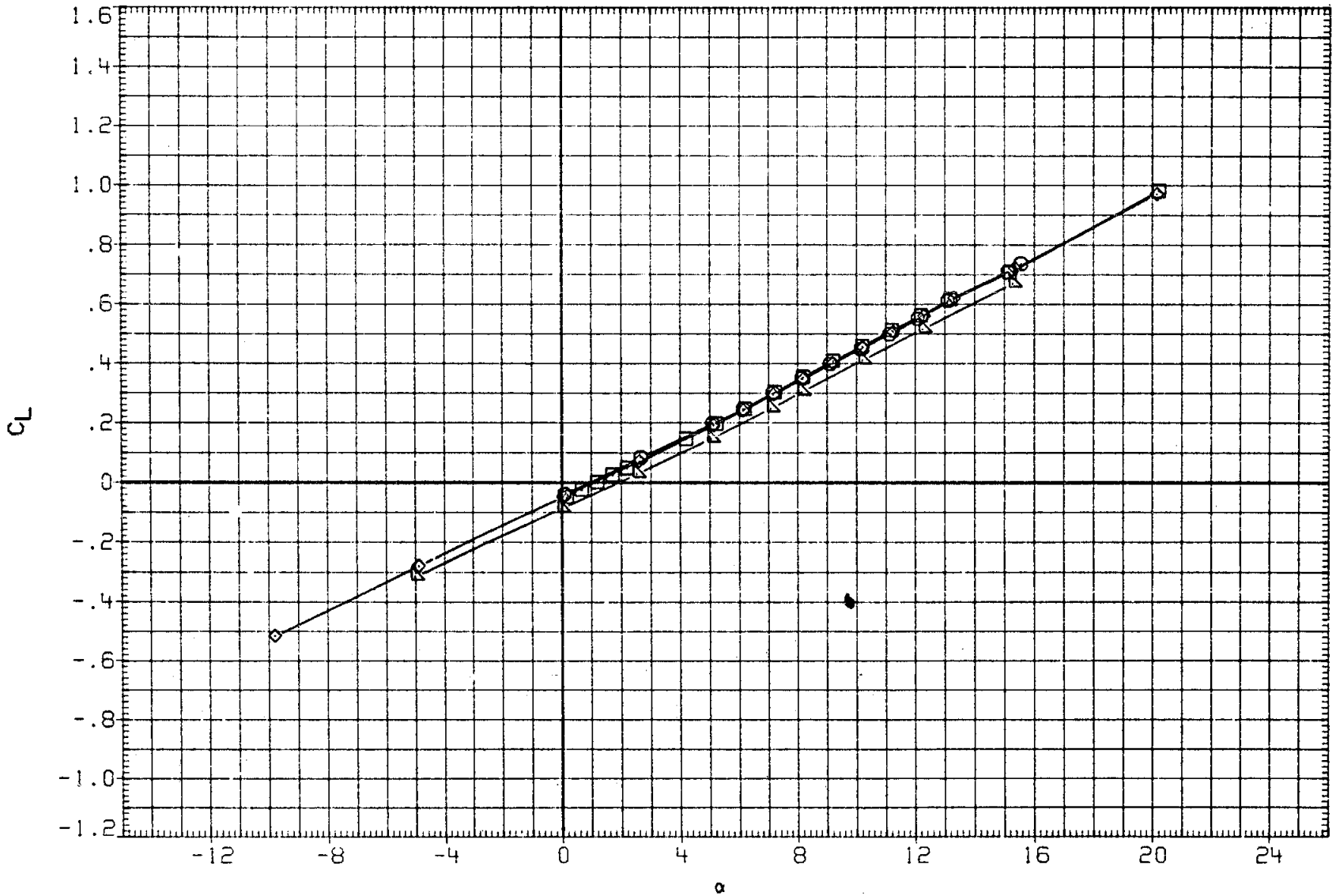

FIGURE 20. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 87.2 DEG.

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0015	△	DATA NOT AVAILABLE	.000	.000	.000	.000	86.810	-.040	.000
R2F085	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	87.200	.000	

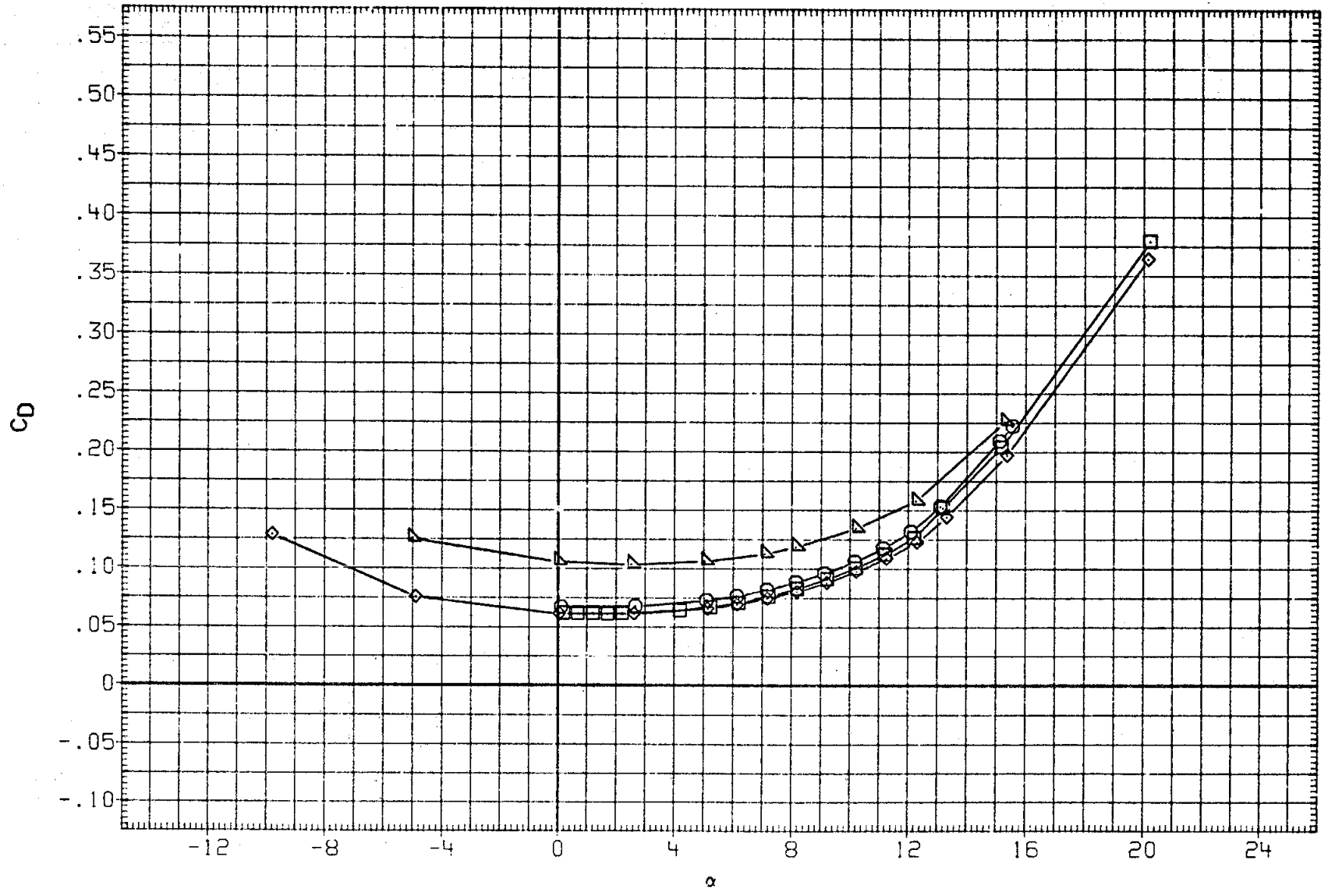

FIGURE 20. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 87.2 DEG.

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	25.000	.000	
RK0015	△	DATA NOT AVAILABLE	.000	.000	.000	.000	86.810	-.040	.000
R2F085	◺	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	87.200	.000	

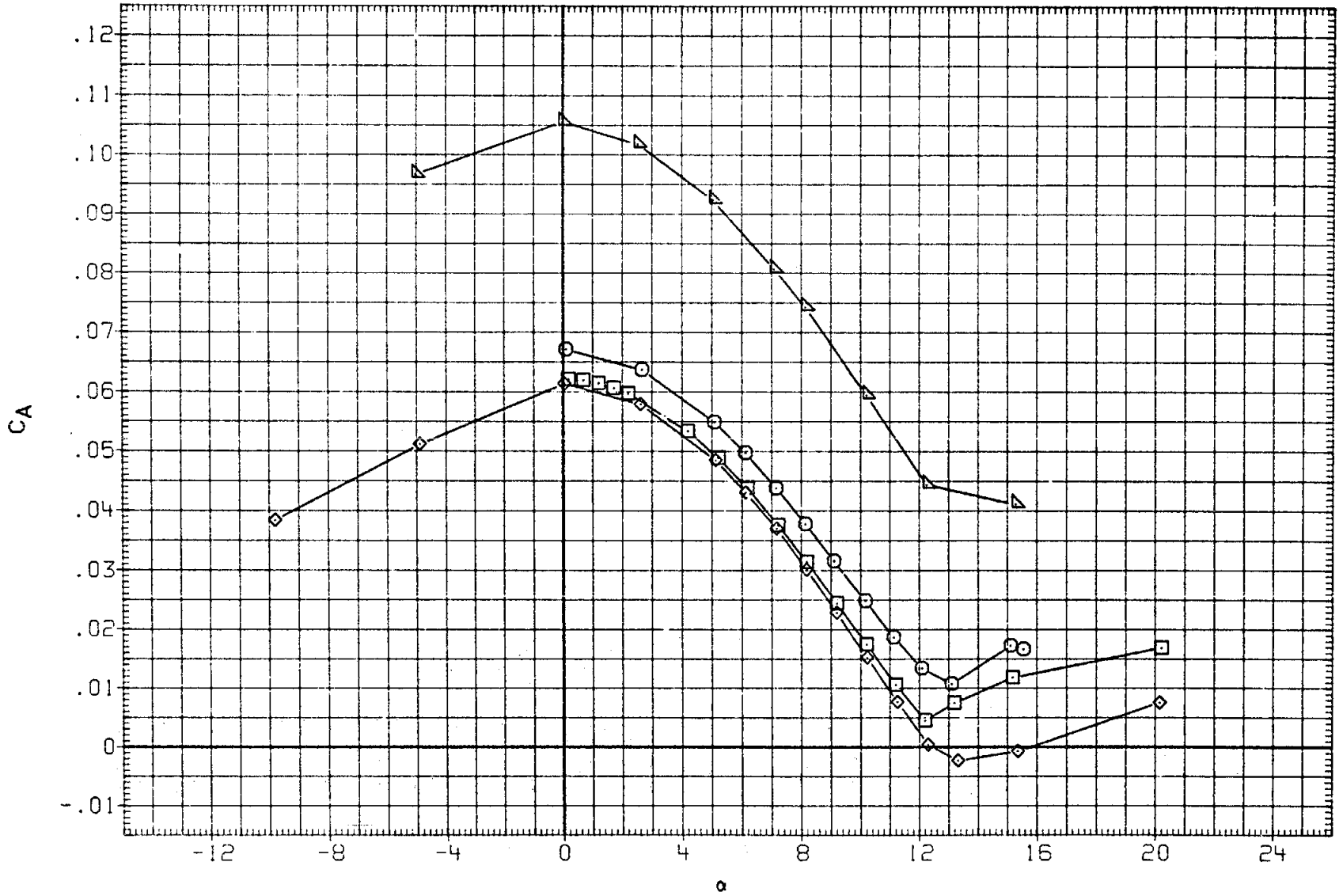

FIGURE 20. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 87.2 DEG.

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 11B-1-11 0A145A 01	.000	.000	.000	.000	25.000	.000	
RK0015	△	DATA NOT AVAILABLE	.000	.000	.000	.000	86.810	-.040	.000
R2F0B5	◺	AMES 11B-1-11 0A145A 01	.000	.000	.000	.000	87.200	.000	

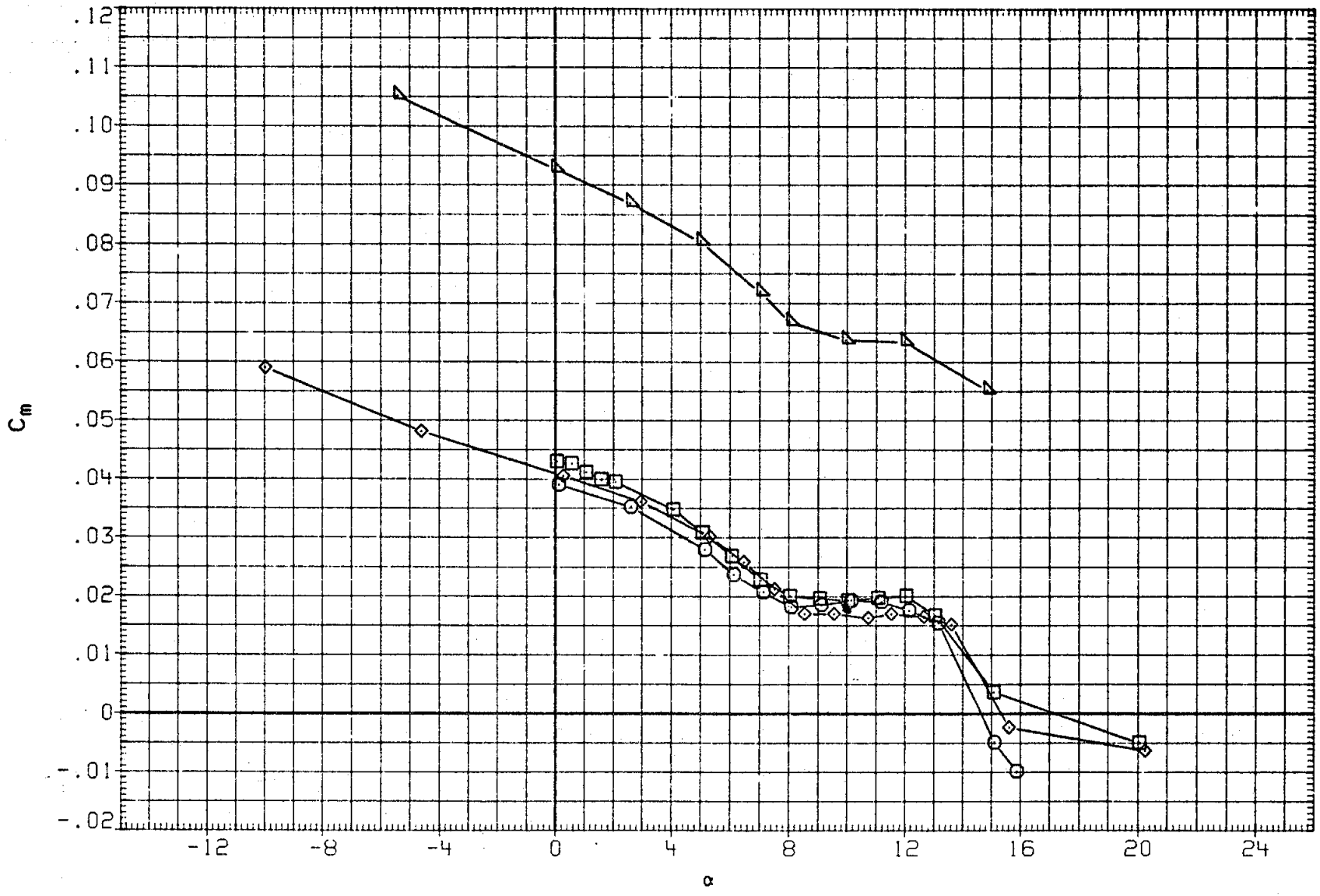

FIGURE 20. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 87.2 DEG.

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0015	△	DATA NOT AVAILABLE	.000	.000	.000	.000	86.810	-.040	.000
R2F085	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	87.200	.000	

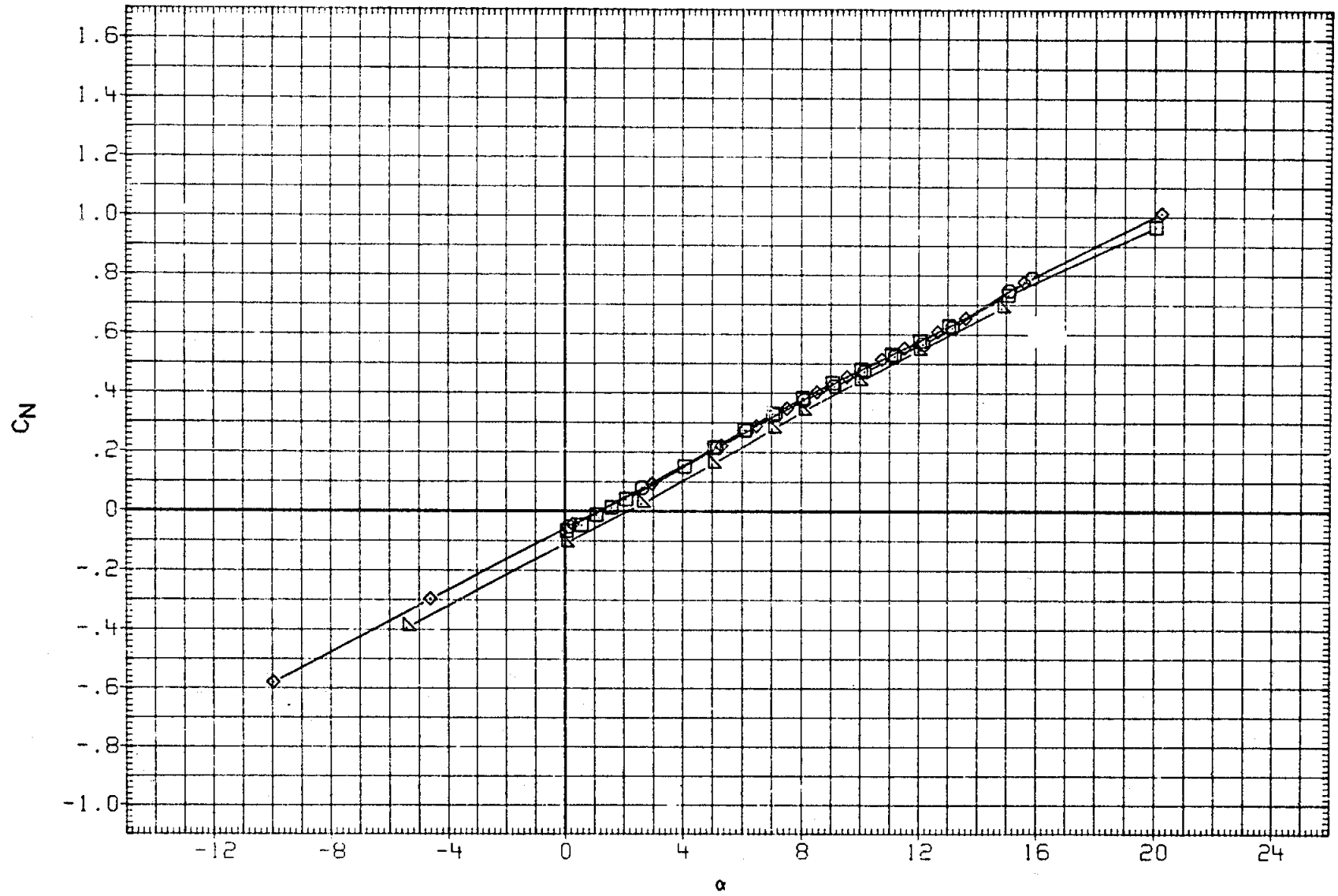

FIGURE 20. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 87.2 DEG.

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0015	△	DATA NOT AVAILABLE	.000	.000	.000	.000	86.810	-.040	.000
R2F085	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	87.200	.000	

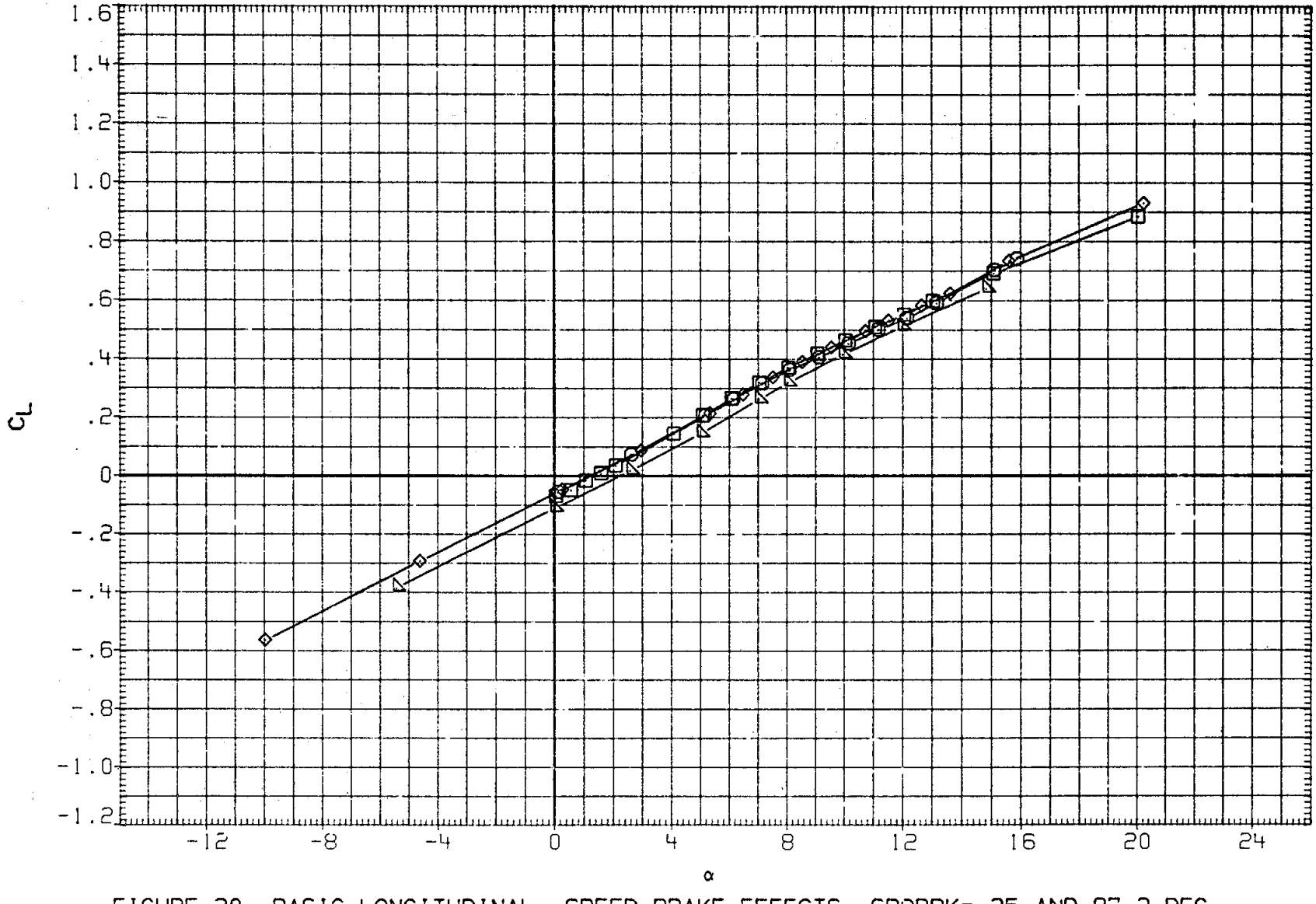

FIGURE 20. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 87.2 DEG.

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 CA145A 01	.000	.000	.000	.000	25.000	.000	
RK0015	△	DATA NOT AVAILABLE	.000	.000	.000	.000	86.810	-.040	.000
R2F085	◺	AMES 118-1-11 CA145A 01	.000	.000	.000	.000	87.200	.000	

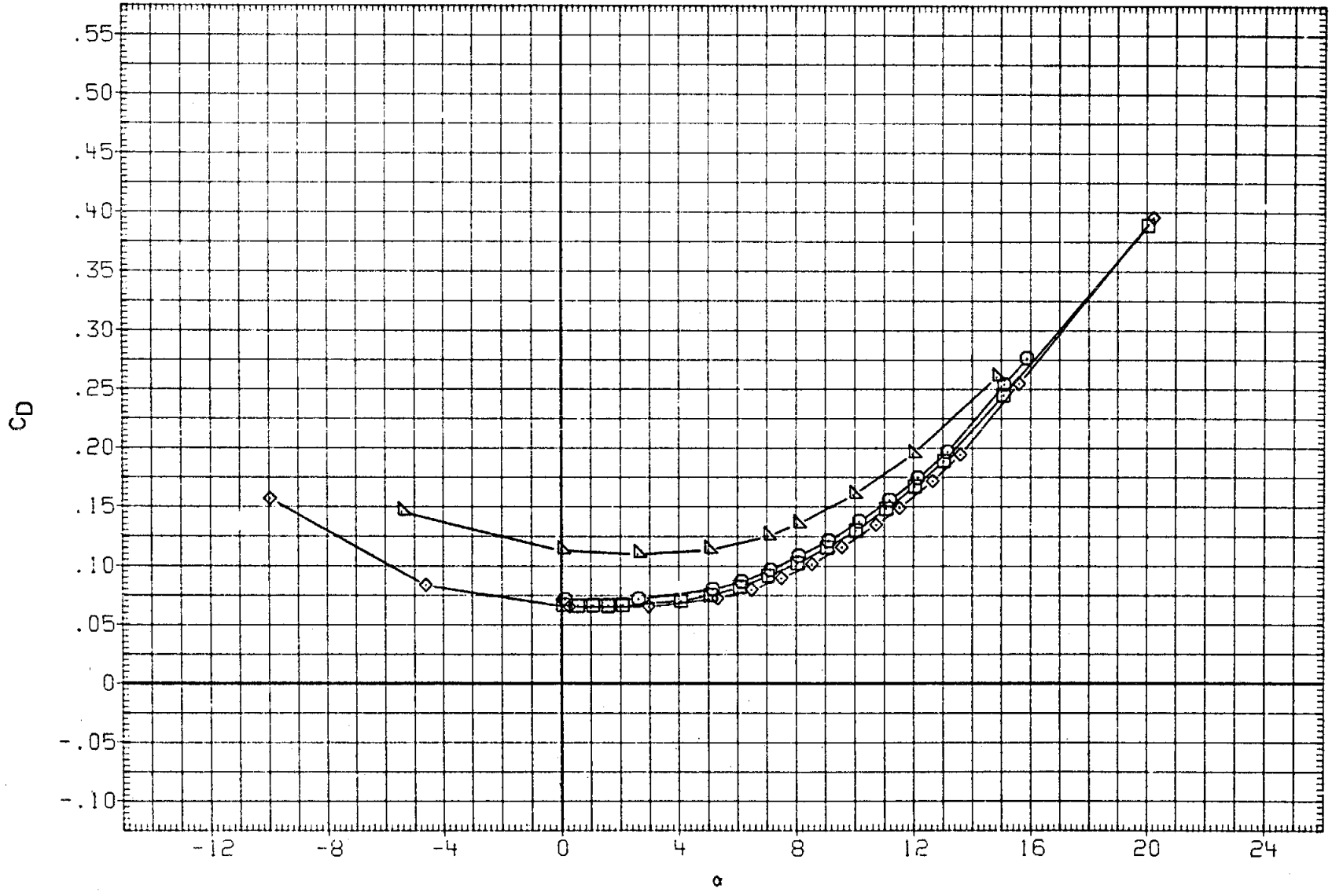

FIGURE 20. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 87.2 DEG.

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0015	△	DATA NOT AVAILABLE	.000	.000	.000	.000	86.810	-.040	.000
R2F085	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	87.200	.000	

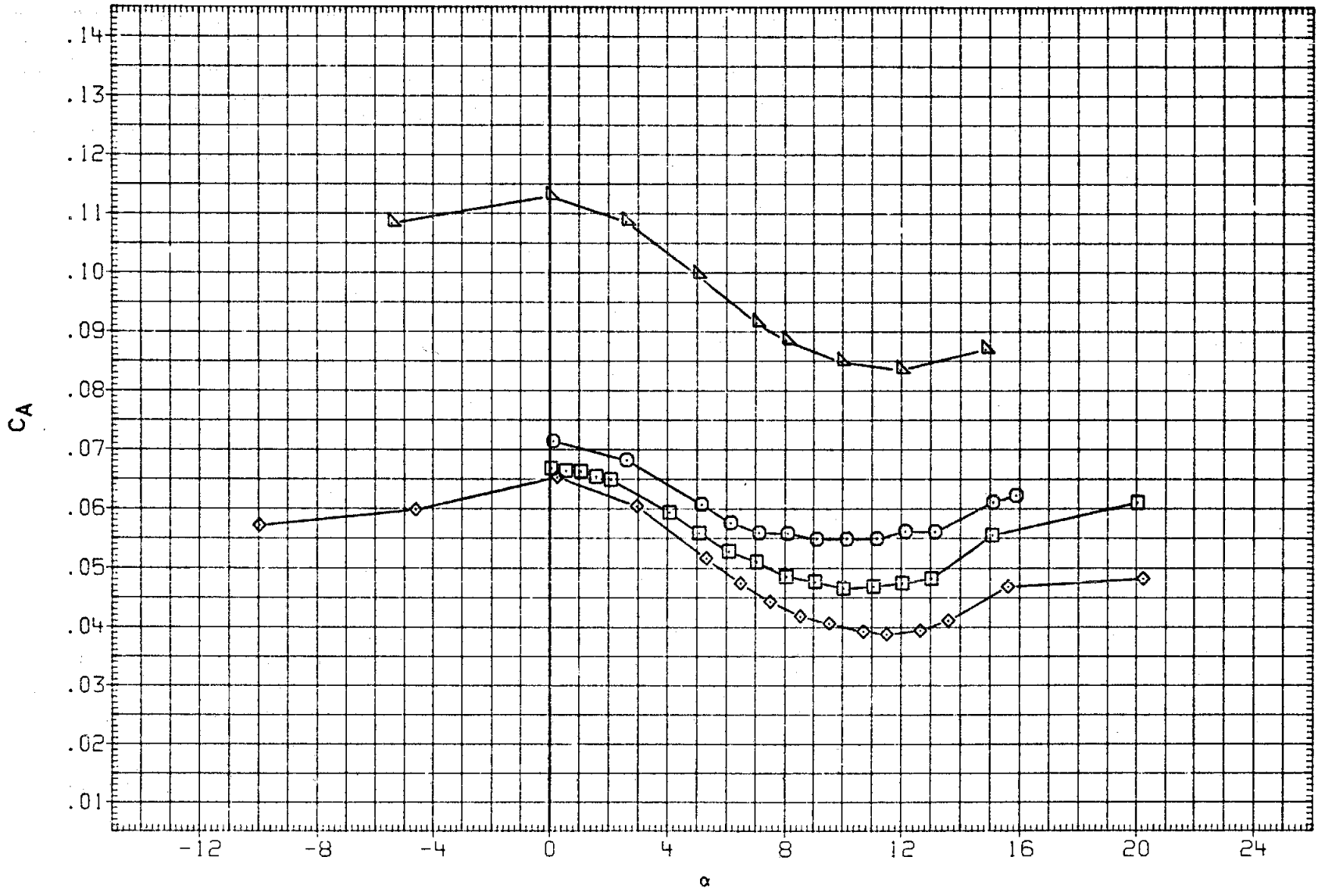

FIGURE 20. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 87.2 DEG.

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 325(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 0A145A 0!	.000	.000	.000	.000	25.000	.000	
RK0015	△	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	86.810	-.040	.000
R2F085	◺	AMES 118-1-11 0A145A 0!	.000	.000	.000	.000	87.200	.000	

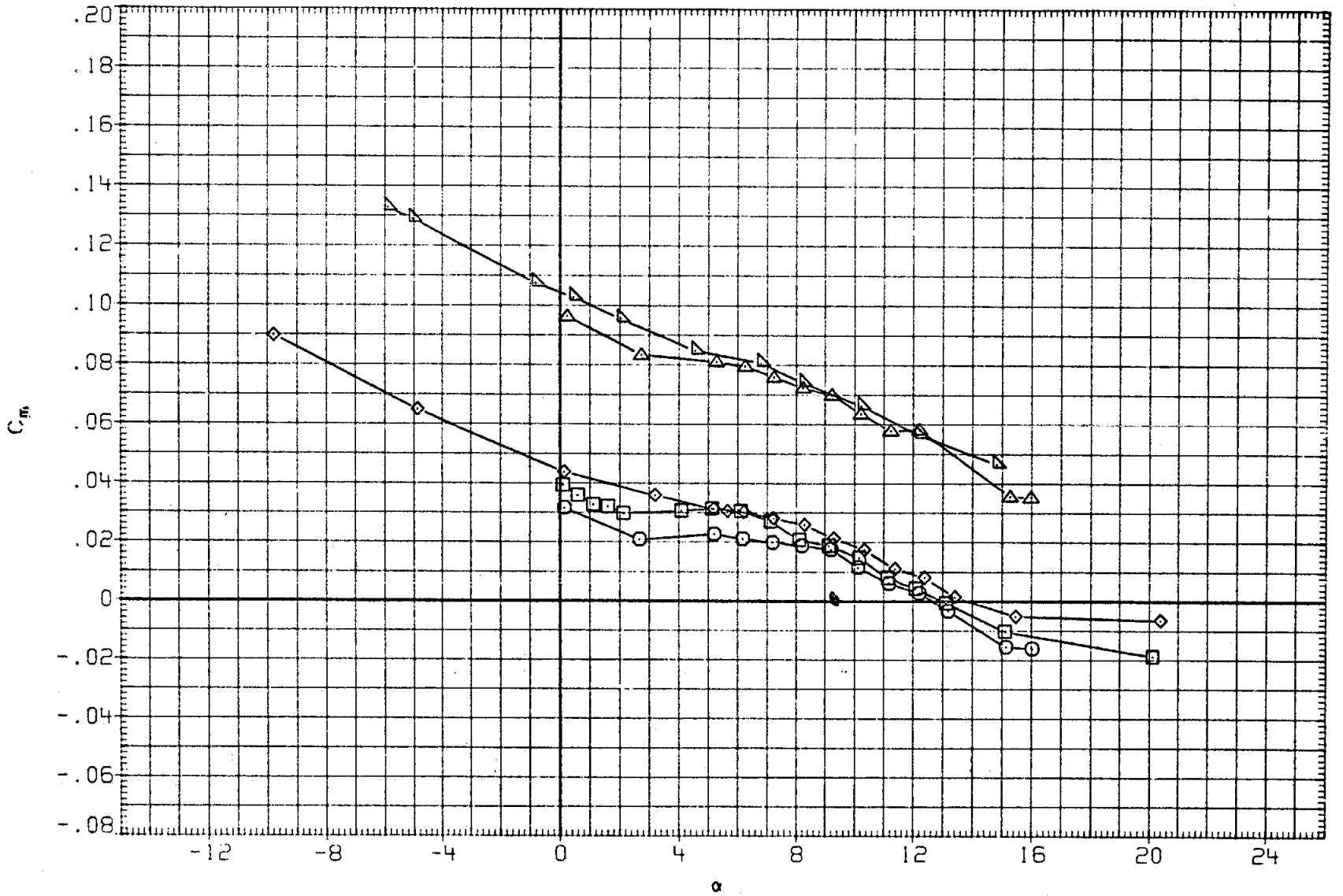

FIGURE 20. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 87.2 DEG.

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	25.000	.000	
RK0015	△	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	86.810	-.040	.000
R2F0B5	◁	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	87.200	.000	

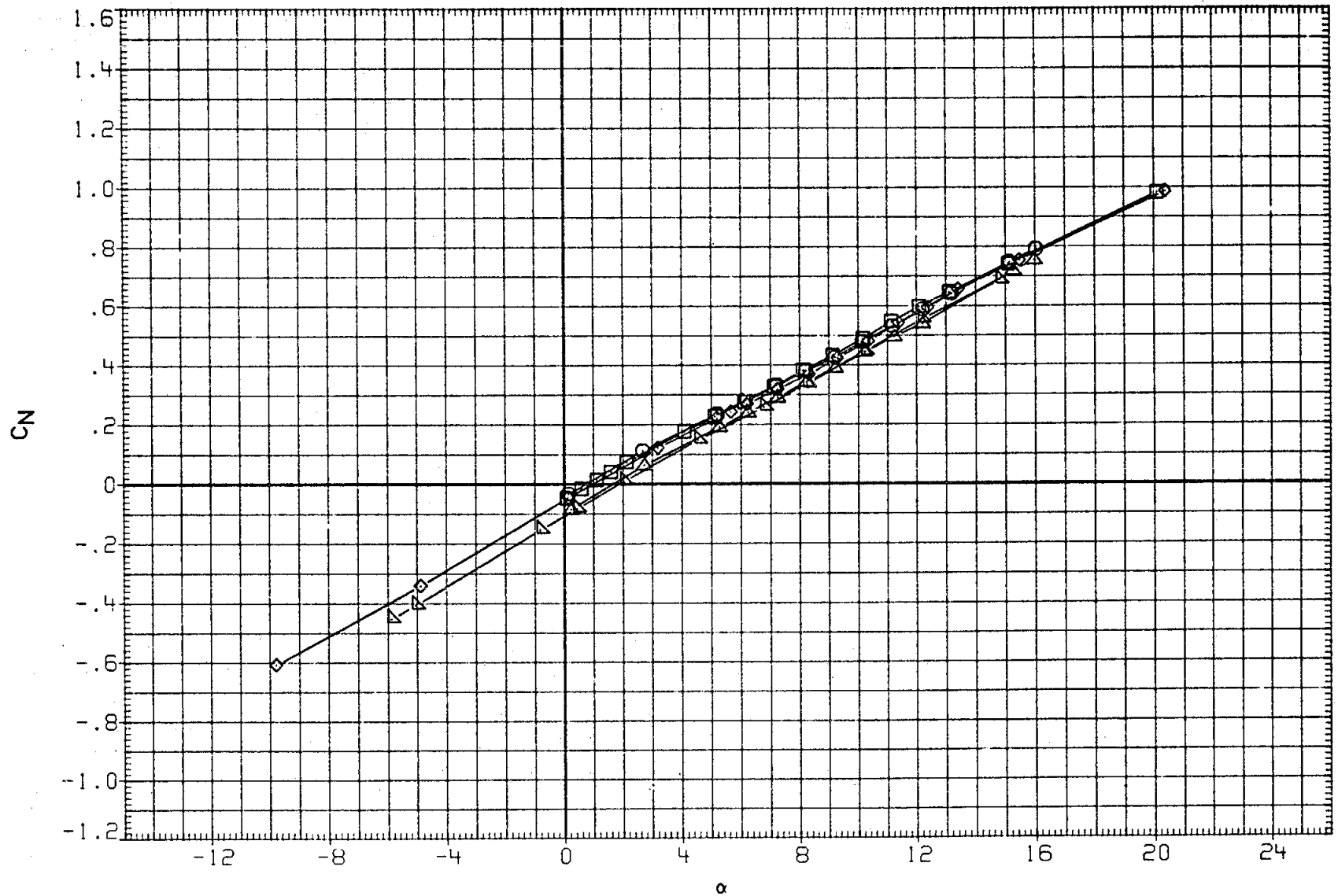

FIGURE 20. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 87.2 DEG.

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 11B-1-11 0A145A 01	.000	.000	.000	.000	25.000	.000	
RK0015	△	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	86.810	-.040	.000
R2F0B5	◺	AMES 11B-1-11 0A145A 01	.000	.000	.000	.000	87.200	.000	

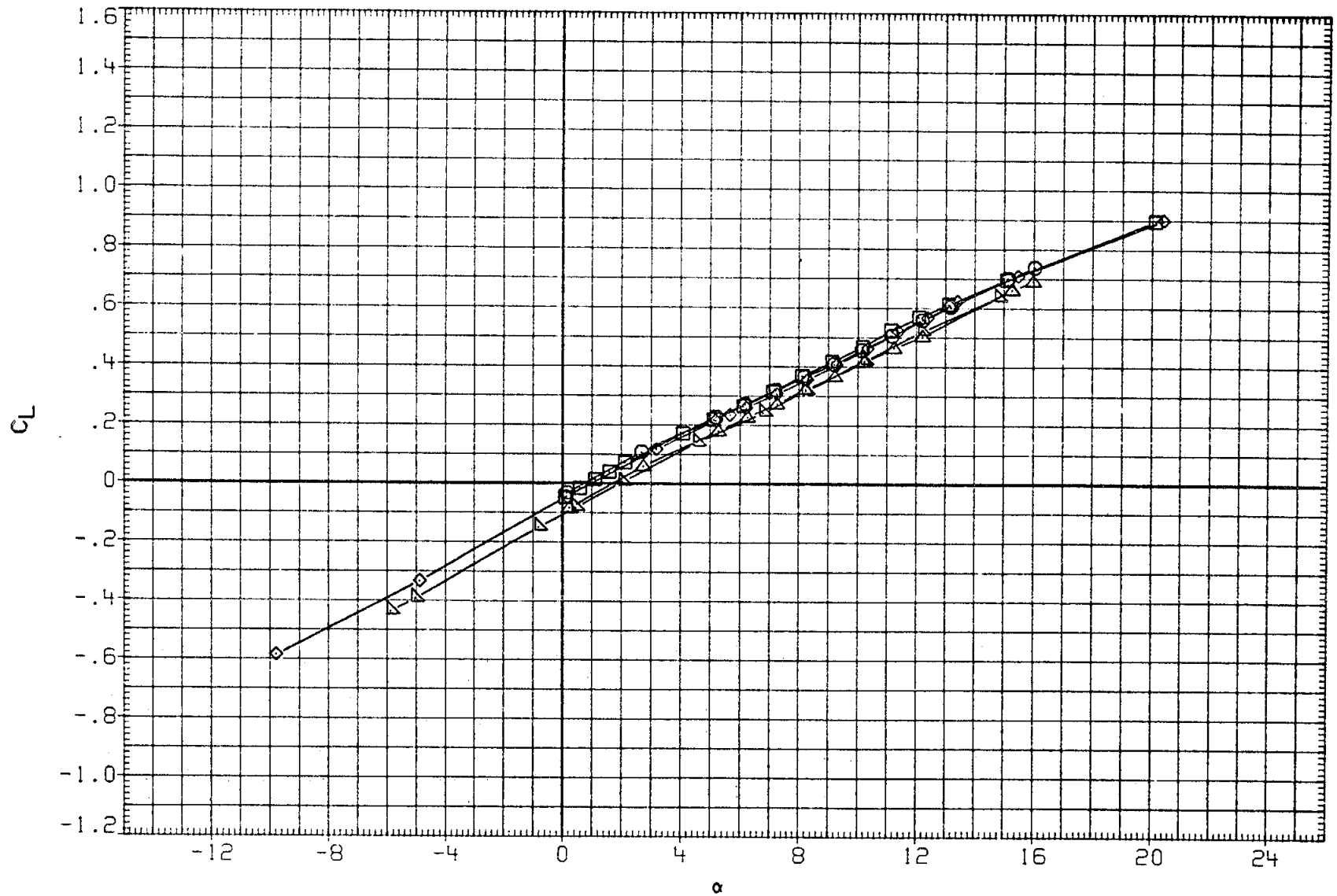

FIGURE 20. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 87.2 DEG.

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0015	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	86.810	-.040	.000
R2F0B5	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	87.200	.000	

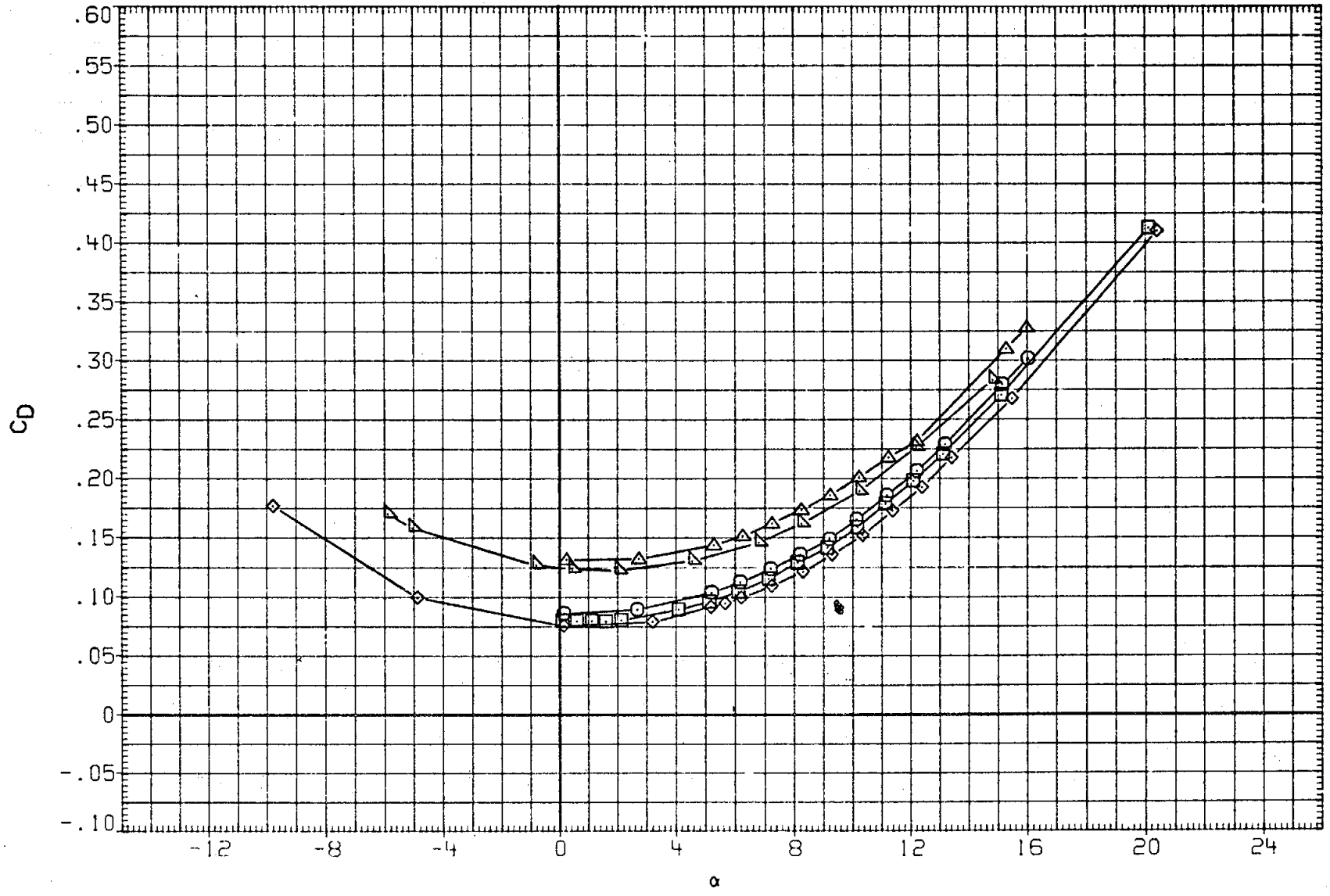

FIGURE 20. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 87.2 DEG.

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	25.000	.000	
RK0015	△	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	86.810	-.040	.000
R2F0B5	◺	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	87.200	.000	

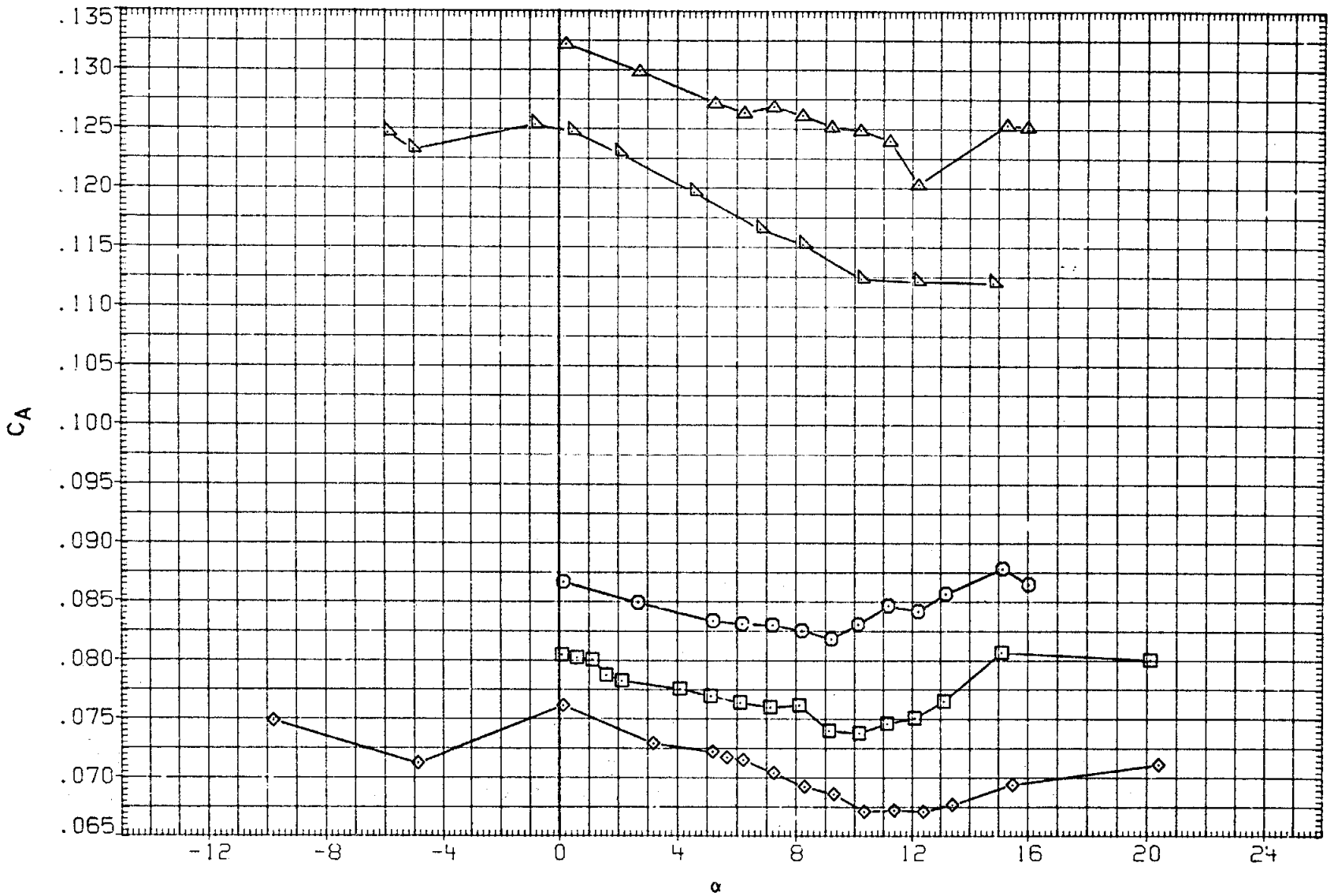

FIGURE 20. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 87.2 DEG.

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	25.000	.000	
RK0015	△	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	86.810	-.040	.000
R2F0B5	◺	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	87.200	.000	

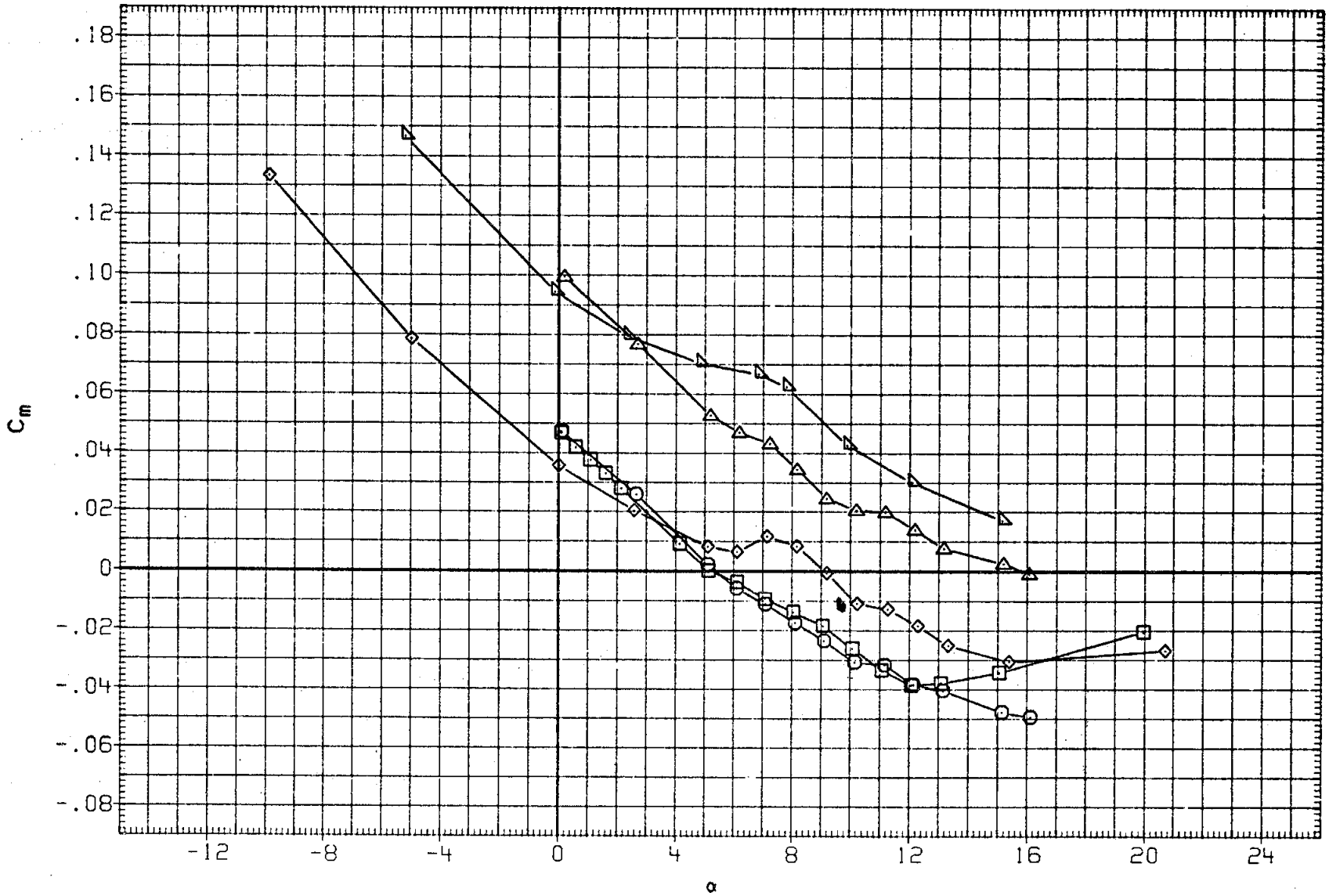

FIGURE 20. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 87.2 DEG.

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0015	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	86.810	-.040	.000
R2F0B5	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	87.200	.000	

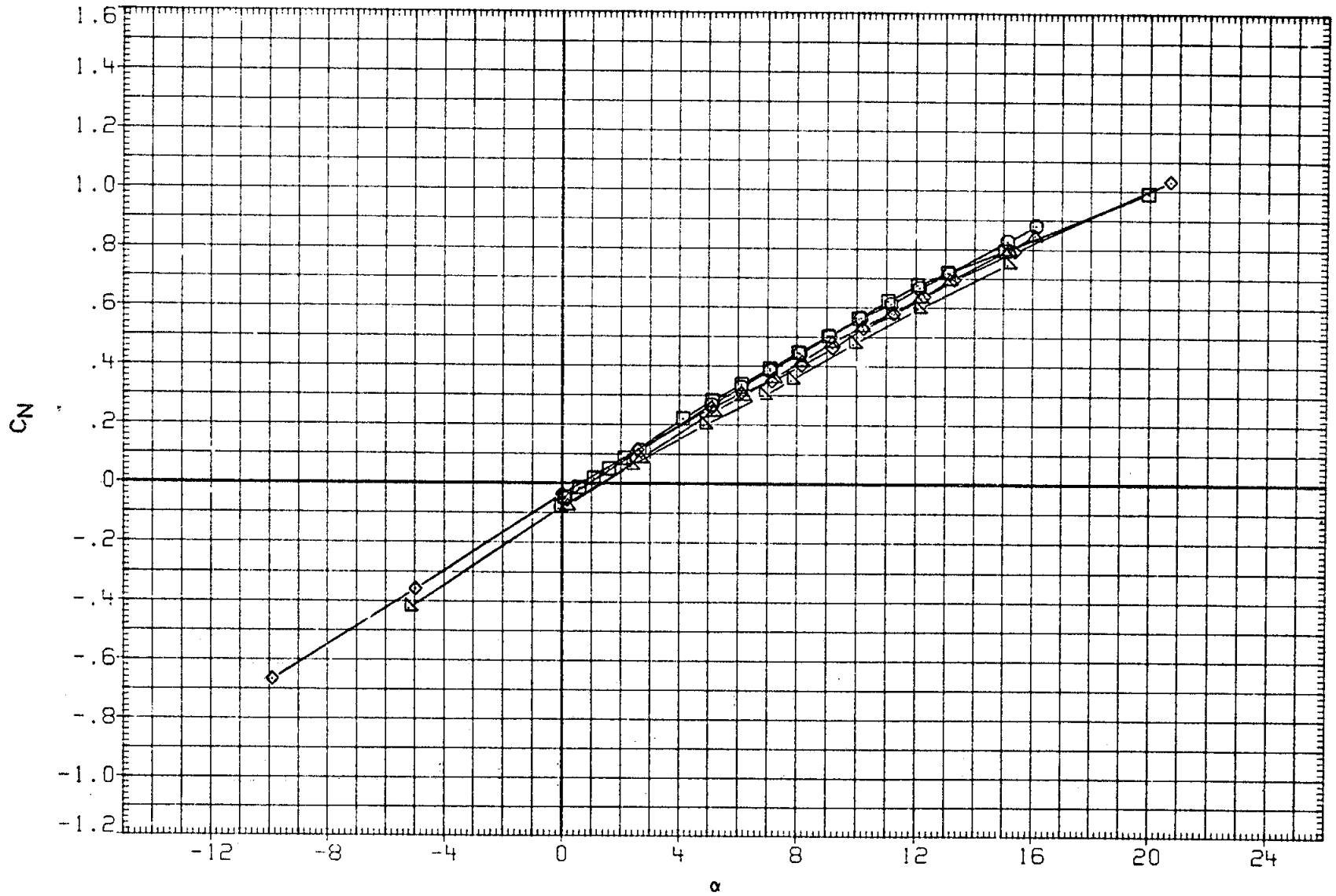

FIGURE 20. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 87.2 DEG.

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	25.000	.000	
RK0015	△	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	86.810	-.040	.000
R2F0B5	◺	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	87.200	.000	

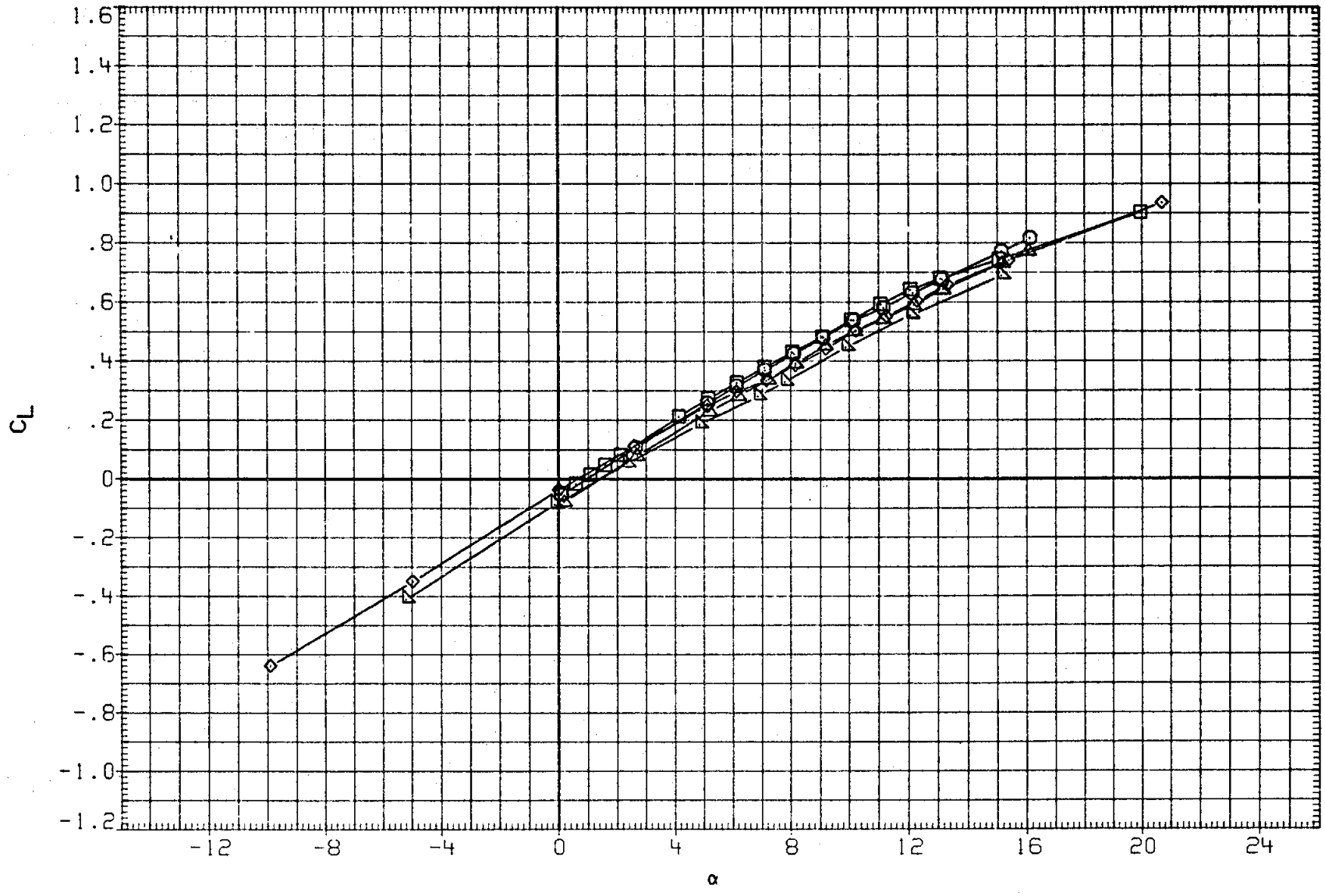

FIGURE 20. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 87.2 DEG.

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	25.000	.000	
RK0015	△	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	86.810	-.040	.000
R2F0B5	◺	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	87.200	.000	

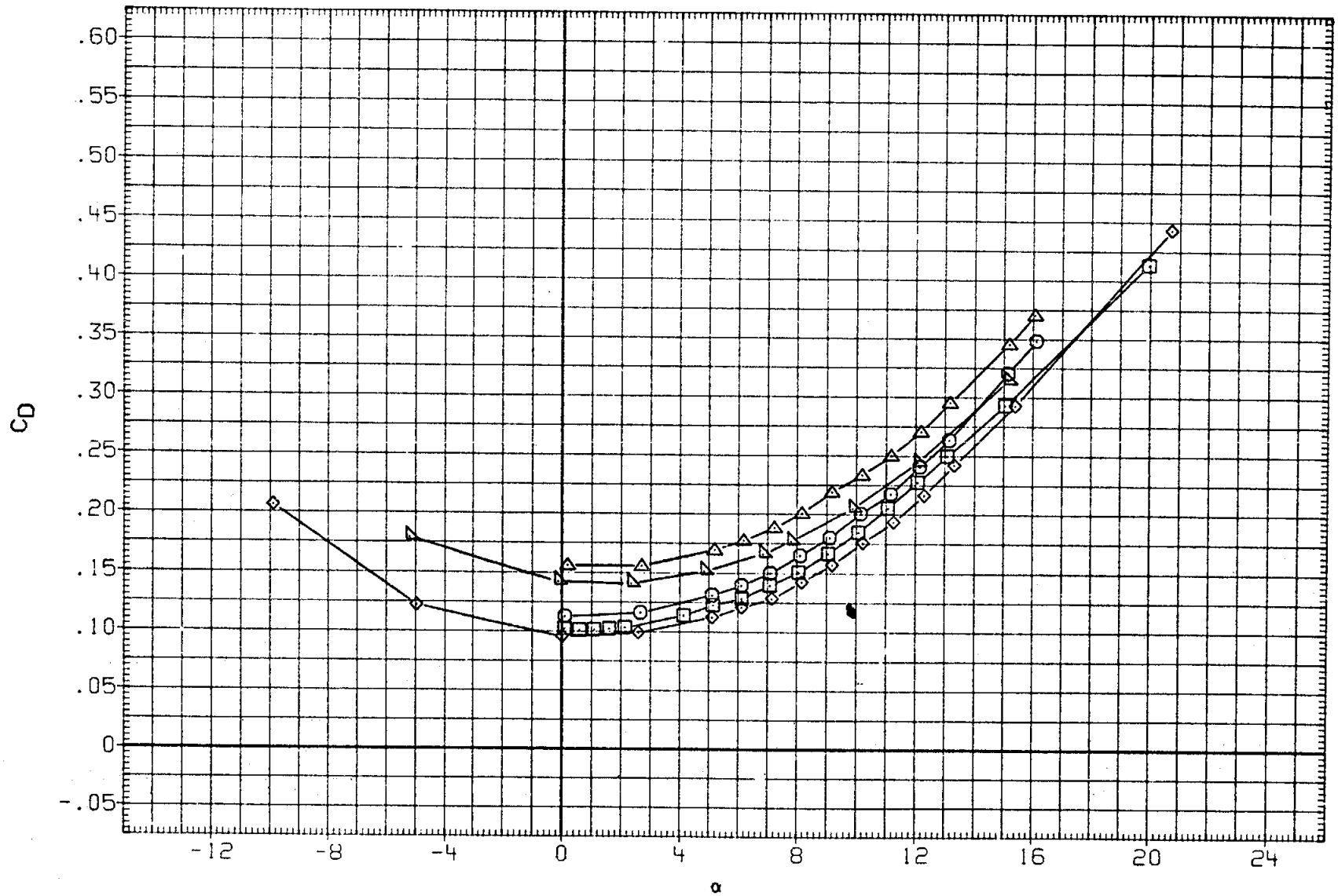

FIGURE 20. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 87.2 DEG.

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0015	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	86.810	-.040	.000
R2F085	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	87.200	.000	

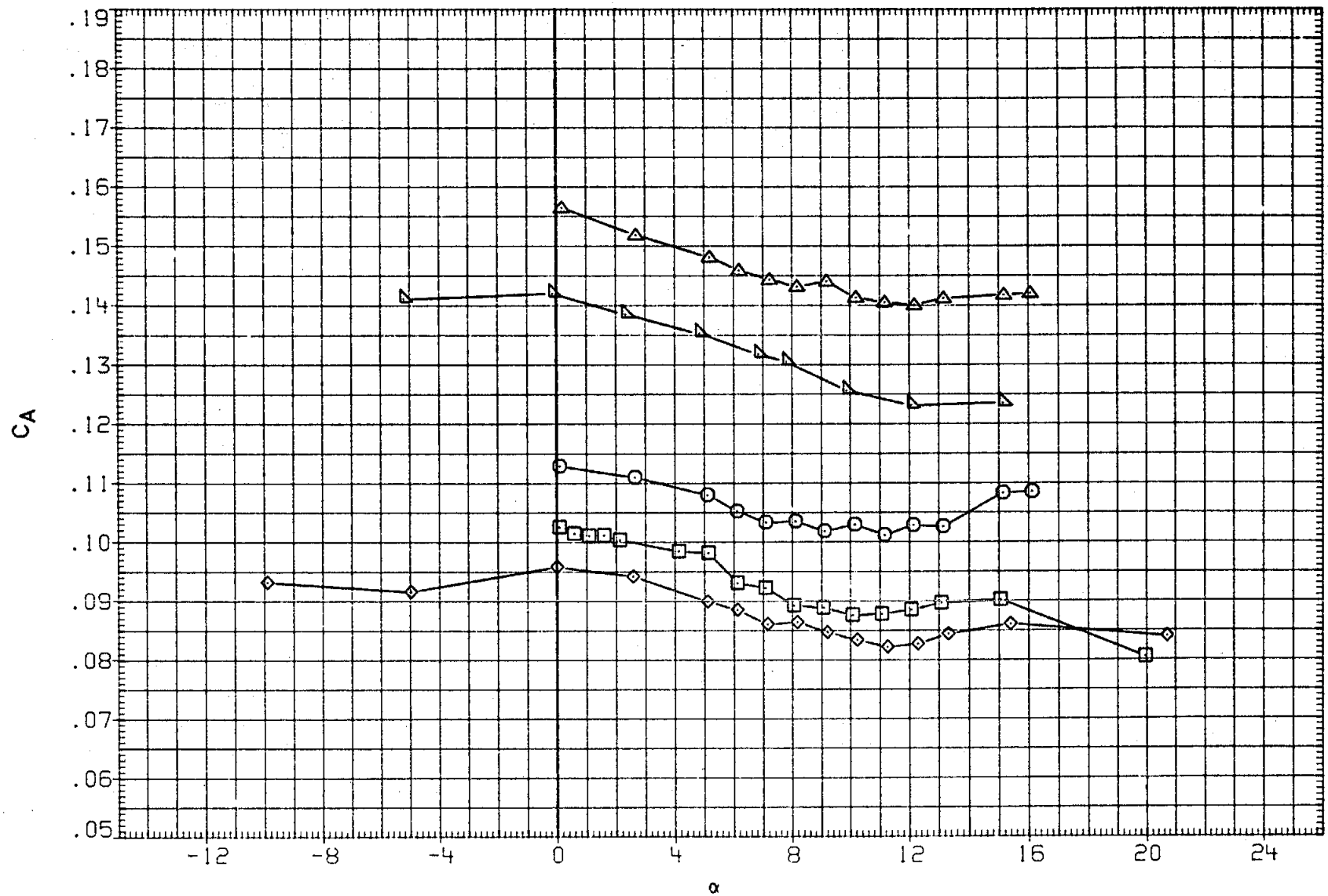

FIGURE 20. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 87.2 DEG.

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RK0015	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	86.810	-.040	.000
R2F0B5	◺	DATA NOT AVAILABLE	.000	.000	.000	.000	87.200	.000	

FIGURE 20. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 87.2 DEG.

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RK0015	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	86.810	-.040	.000
R2F0B5	◺	DATA NOT AVAILABLE	.000	.000	.000	.000	87.200	.000	

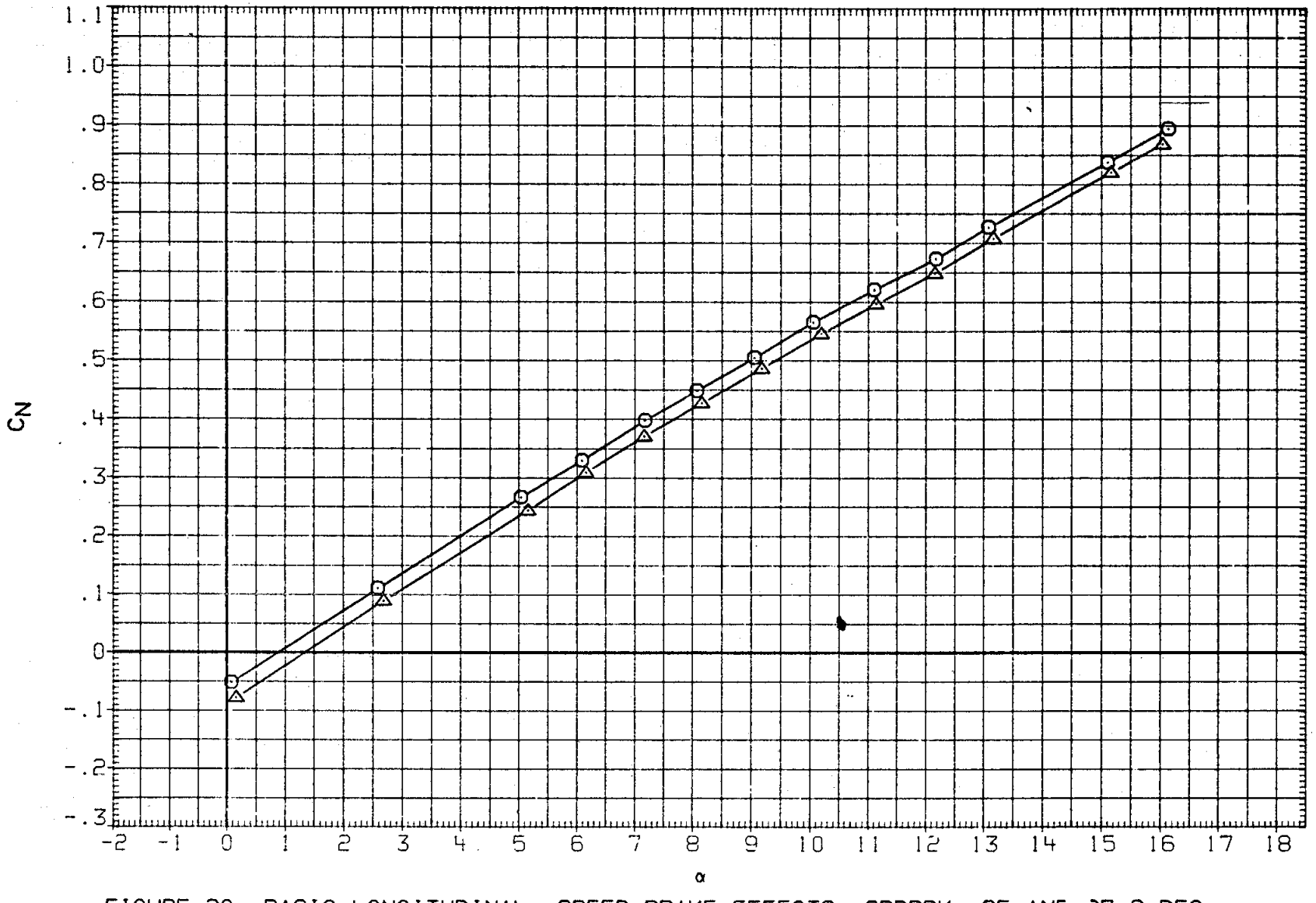

FIGURE 20. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 ANΓ 37.2 DEG.

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RK0015	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	86.810	-.040	.000
R2F085	◺	DATA NOT AVAILABLE	.000	.000	.000	.000	87.200	.000	

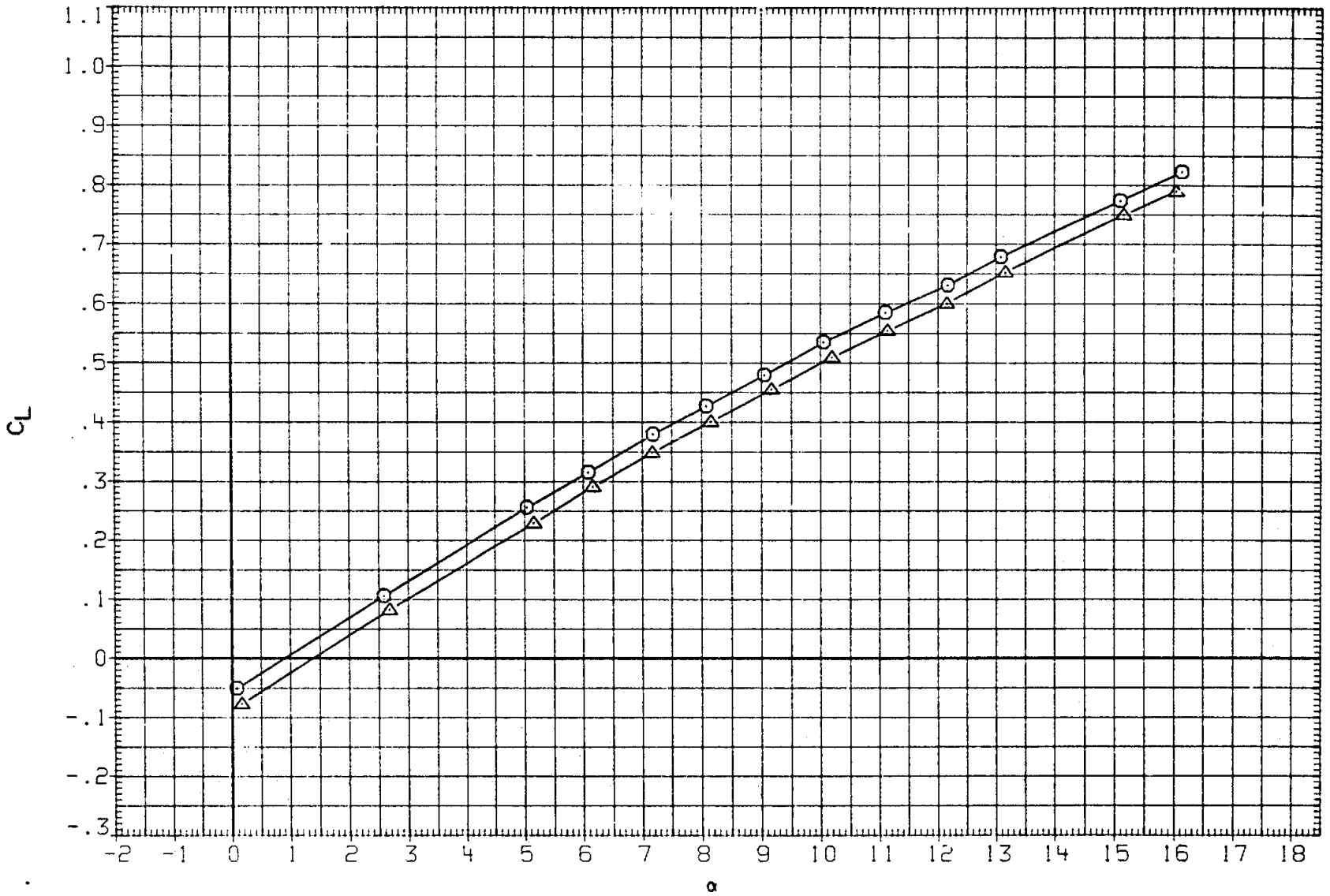

FIGURE 20. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 87.2 DEG.

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RK0015	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	86.810	-.040	.000
R2F0B5	◺	DATA NOT AVAILABLE	.000	.000	.000	.000	87.200	.000	

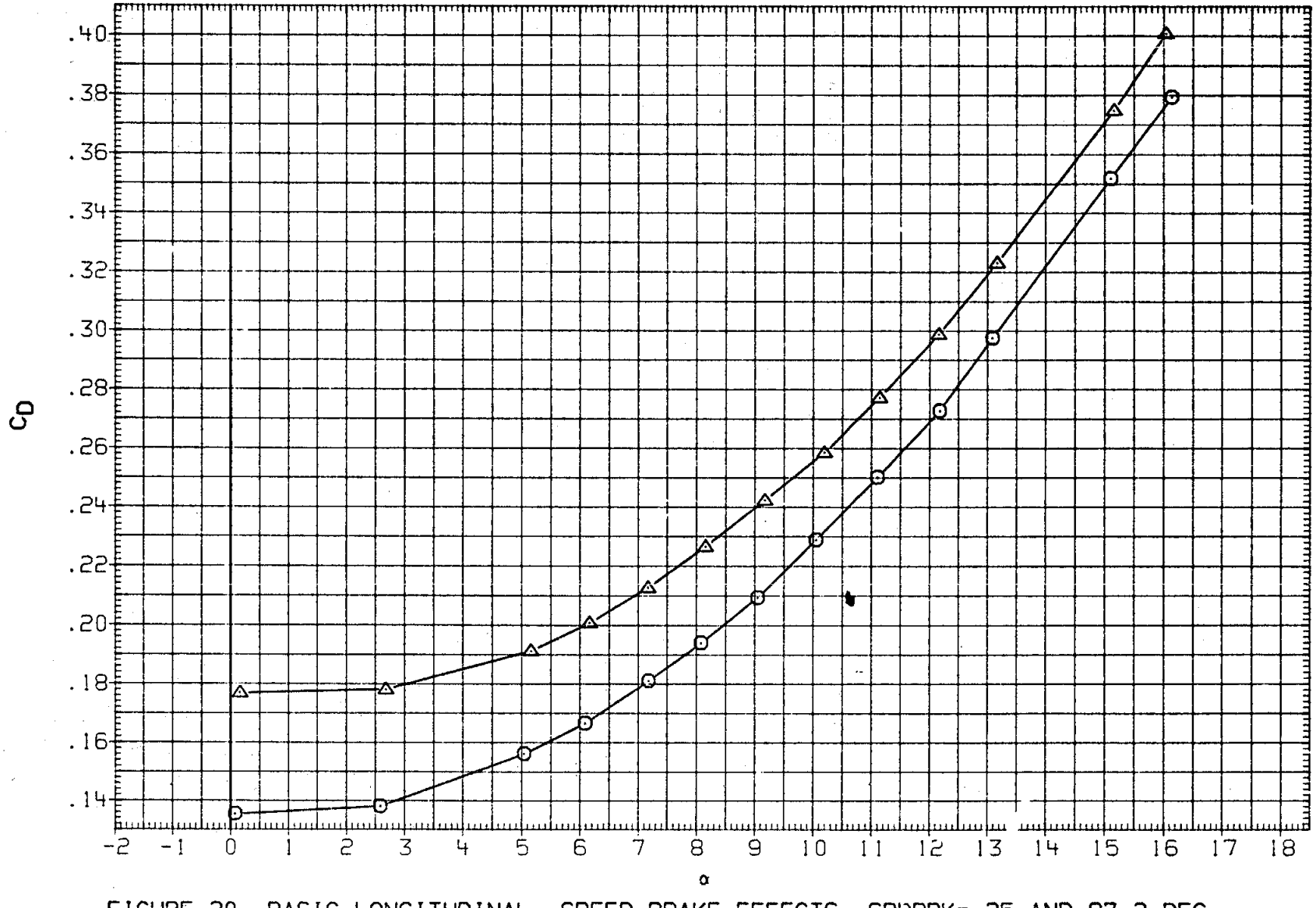

FIGURE 20. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 87.2 DEG.

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RK0015	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	86.810	-.040	.000
R2F0B5	◺	DATA NOT AVAILABLE	.000	.000	.000	.000	87.200	.000	

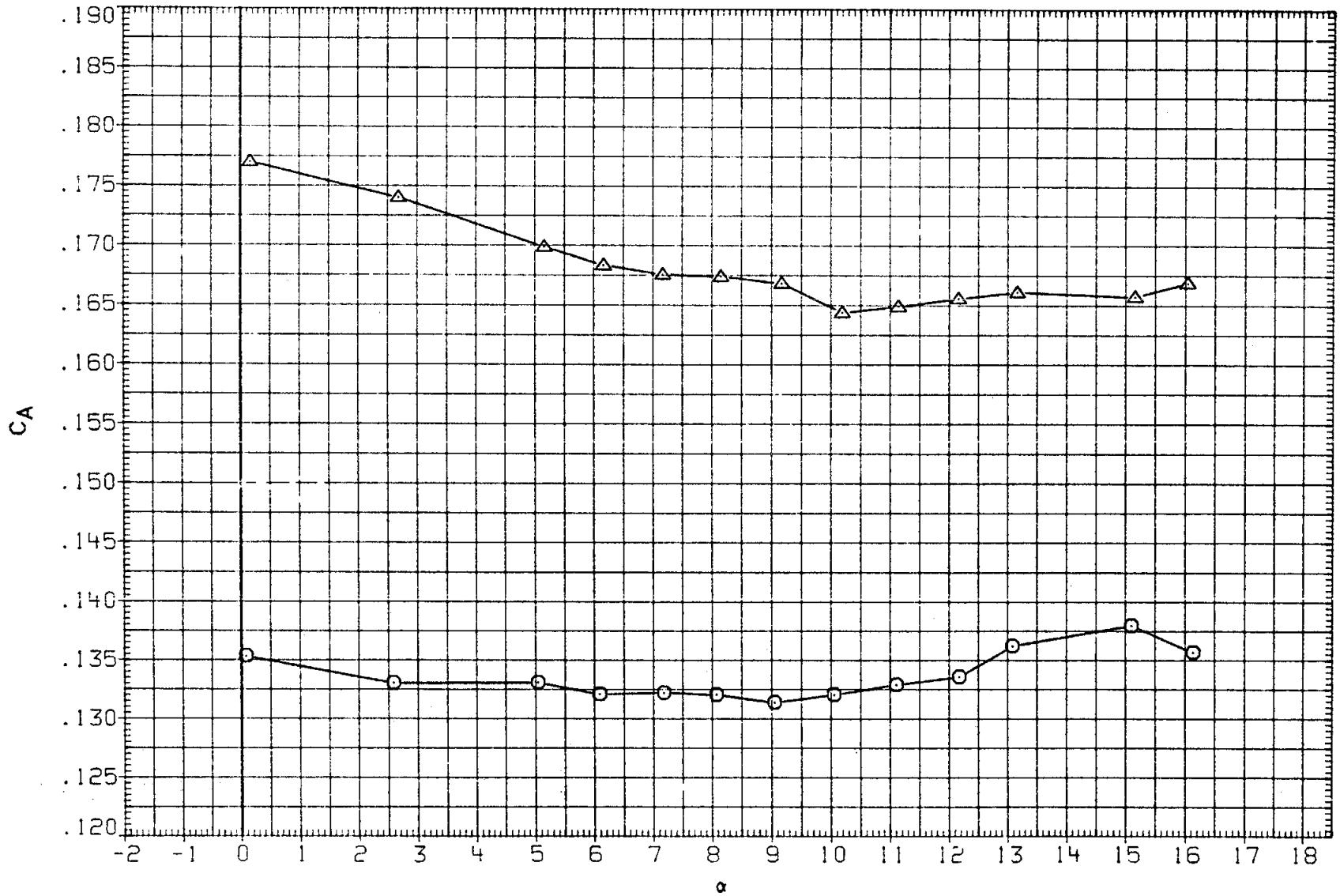

FIGURE 20. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 87.2 DEG.

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0015	△	DATA NOT AVAILABLE	.000	.000	.000	.000	86.810	-.040	.000
R2F085	◺	DATA NOT AVAILABLE	.000	.000	.000	.000	87.200	.000	

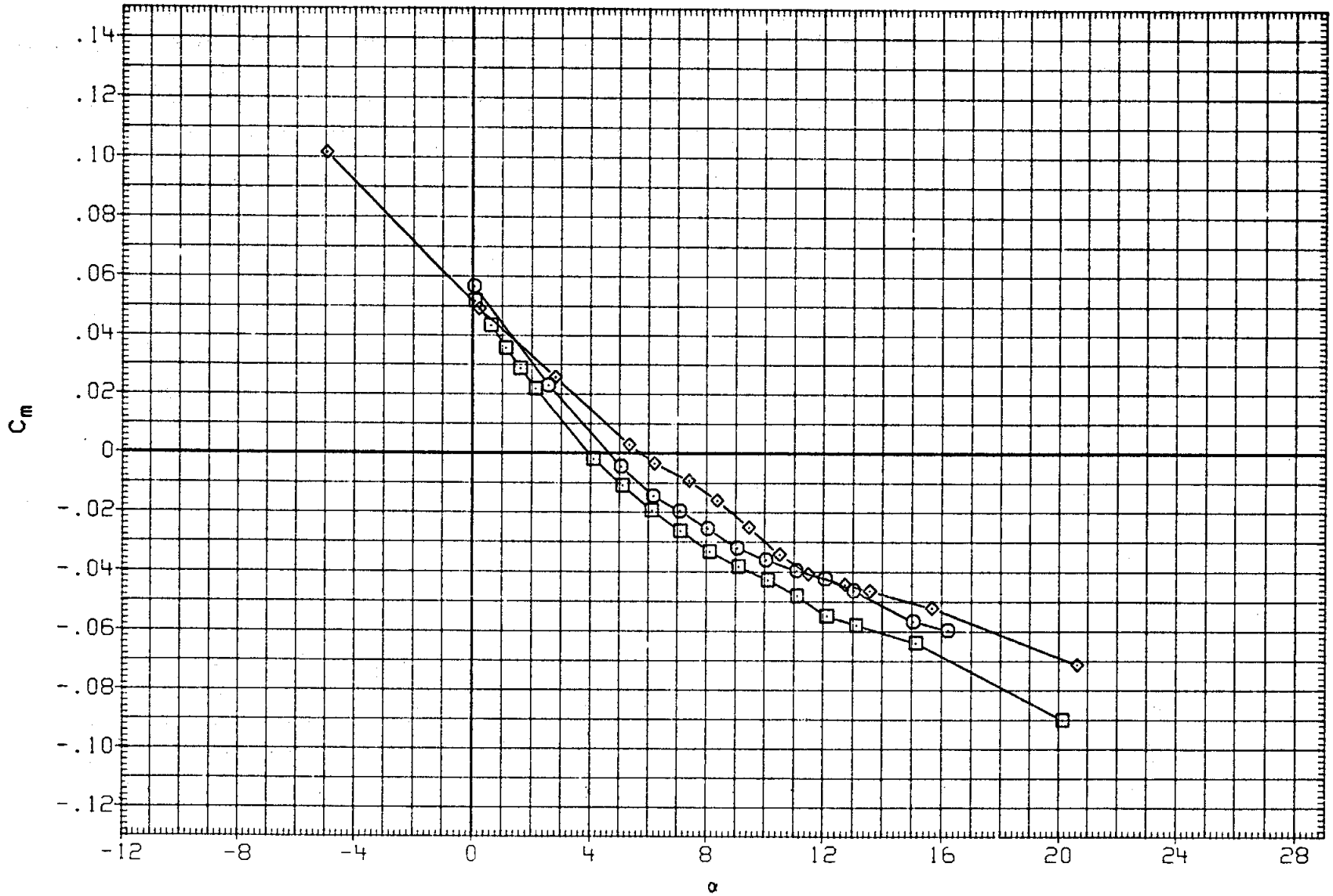

FIGURE 20. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 87.2 DEG.

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0015	△	DATA NOT AVAILABLE	.000	.000	.000	.000	86.810	-.040	.000
R2F0B5	◺	DATA NOT AVAILABLE	.000	.000	.000	.000	87.200	.000	

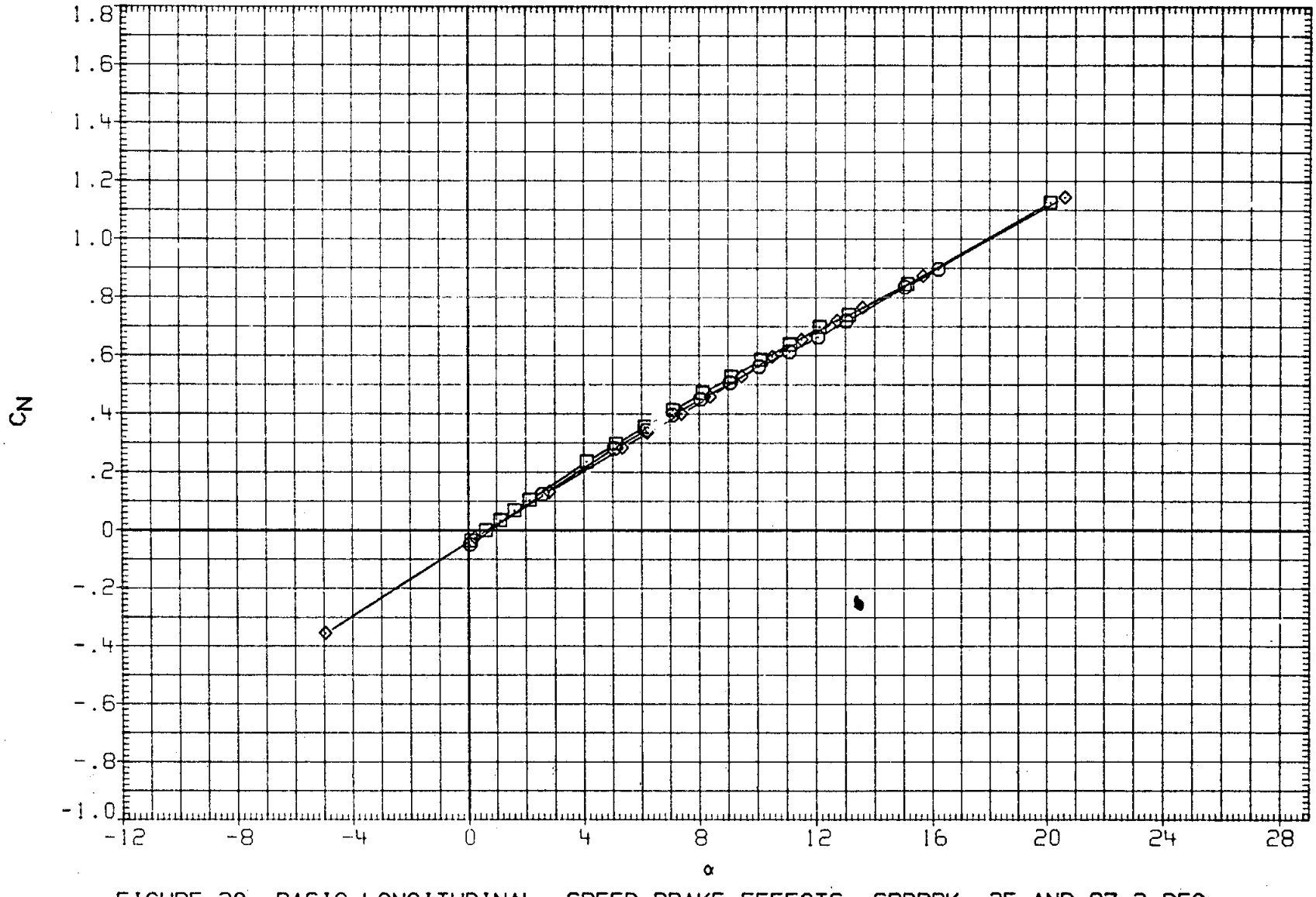

FIGURE 20. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 87.2 DEG.

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 11B-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0015	△	DATA NOT AVAILABLE	.000	.000	.000	.000	86.810	-.040	.000
R2F065	◺	DATA NOT AVAILABLE	.000	.000	.000	.000	87.200	.000	

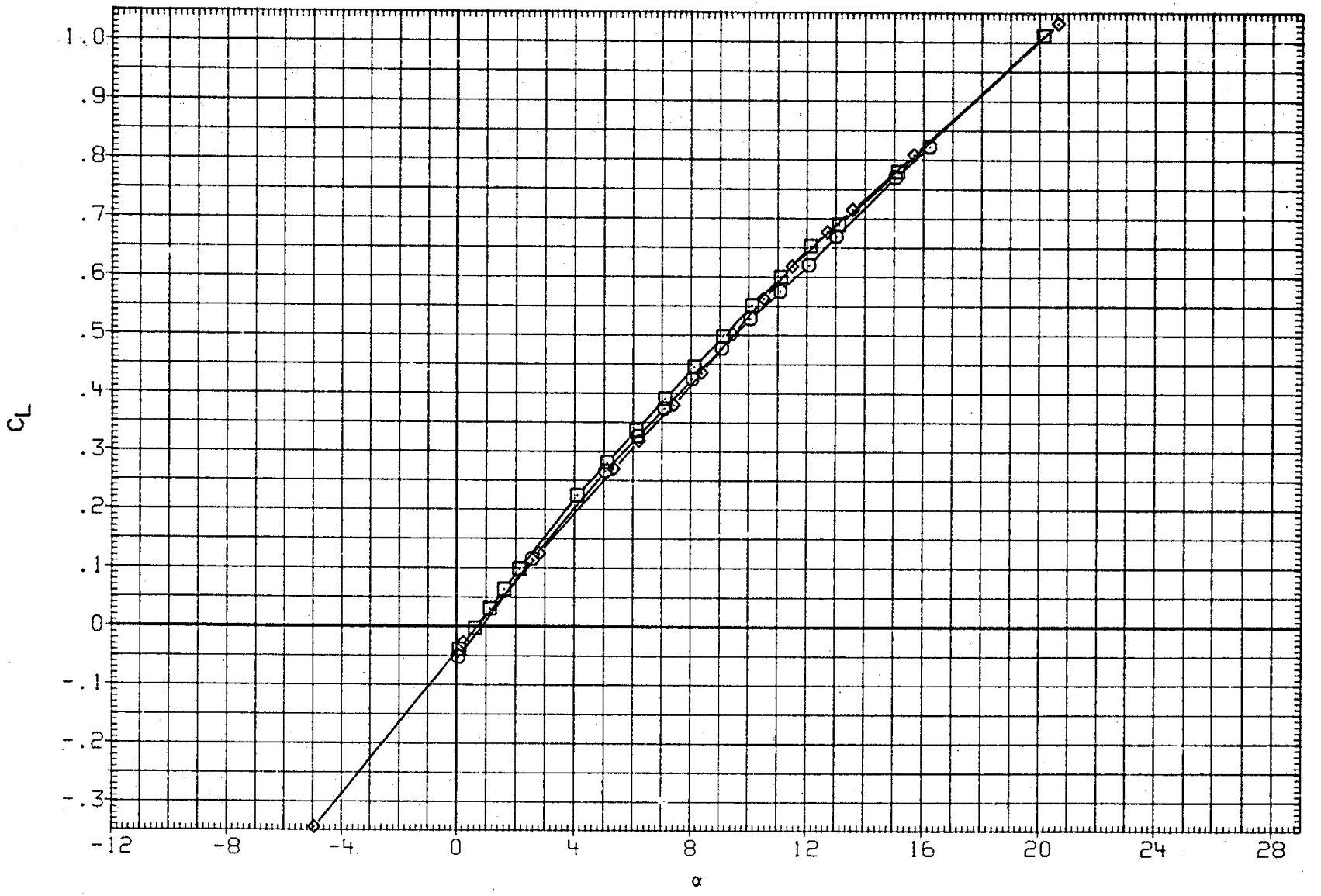

FIGURE 20. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 87.2 DEG.

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0015	△	DATA NOT AVAILABLE	.000	.000	.000	.000	86.810	-.040	.000
R2F0B5	◺	DATA NOT AVAILABLE	.000	.000	.000	.000	87.200	.000	

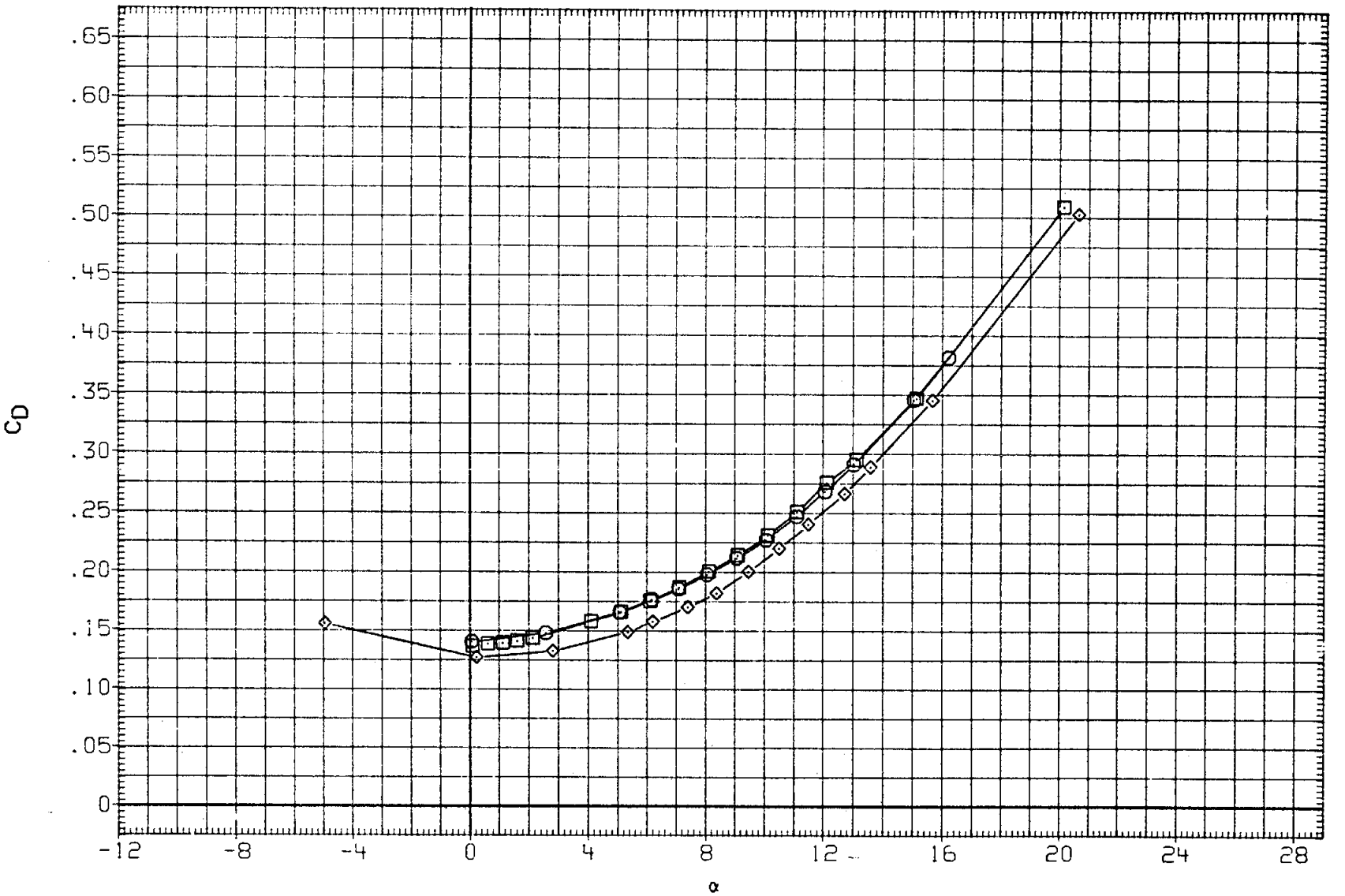

FIGURE 20. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 87.2 DEG.

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 119-1-11 0A145A 01	.000	.000	.000	.000	25.000	.000	
RK0015	△	DATA NOT AVAILABLE	.000	.000	.000	.000	86.810	-.040	.000
R2F085	◺	DATA NOT AVAILABLE	.000	.000	.000	.000	87.200	.000	

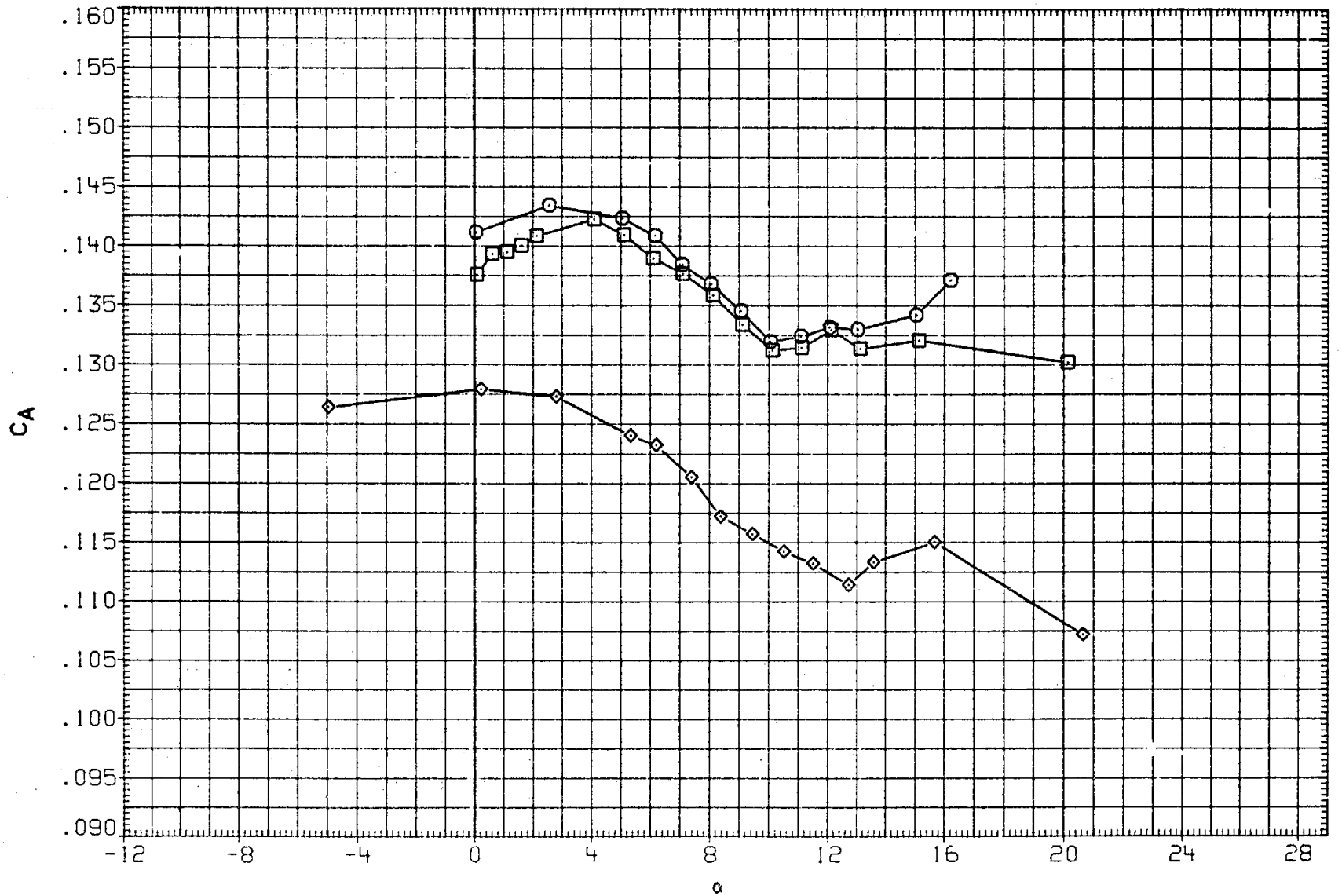

FIGURE 20. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 87.2 DEG.

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0015	△	DATA NOT AVAILABLE	.000	.000	.000	.000	86.810	-.040	.000
R2F0B5	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	87.200	.000	

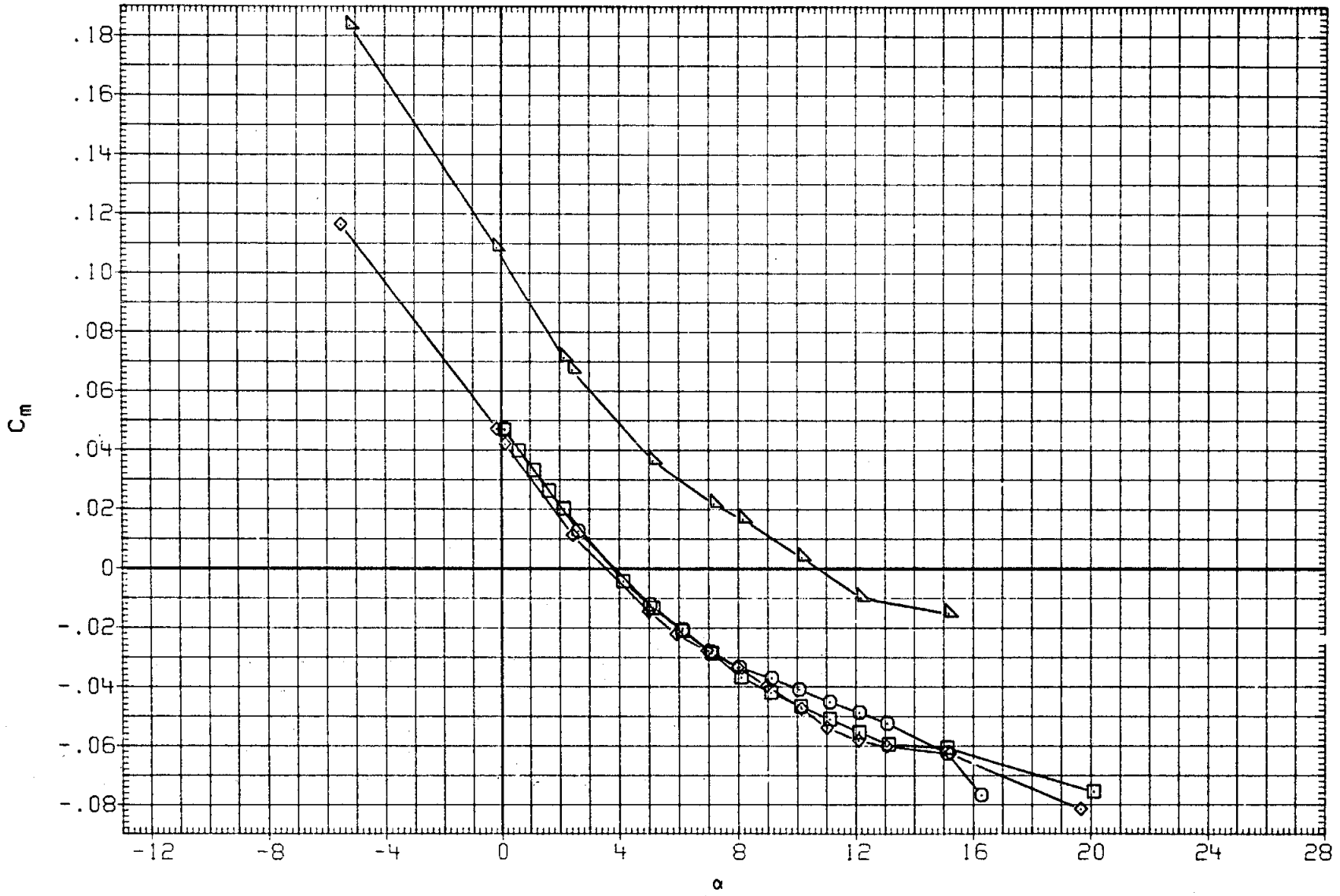

FIGURE 20. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 87.2 DEG.

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0015	△	DATA NOT AVAILABLE	.000	.000	.000	.000	86.810	-.040	.000
R2F085	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	87.200	.000	

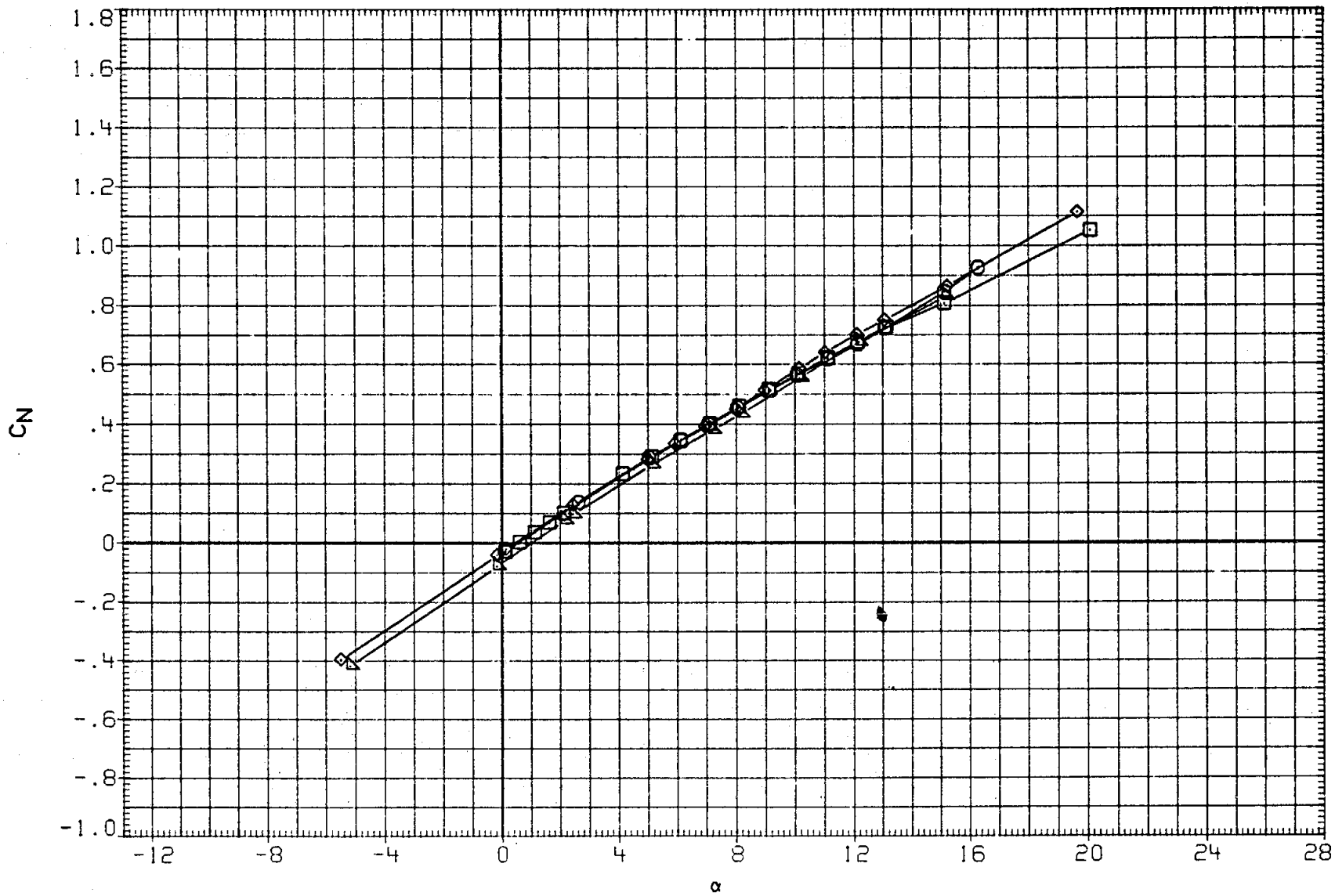

FIGURE 20. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 87.2 DEG.

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0015	△	DATA NOT AVAILABLE	.000	.000	.000	.000	86.810	-.040	.000
R2F085	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	87.200	.000	

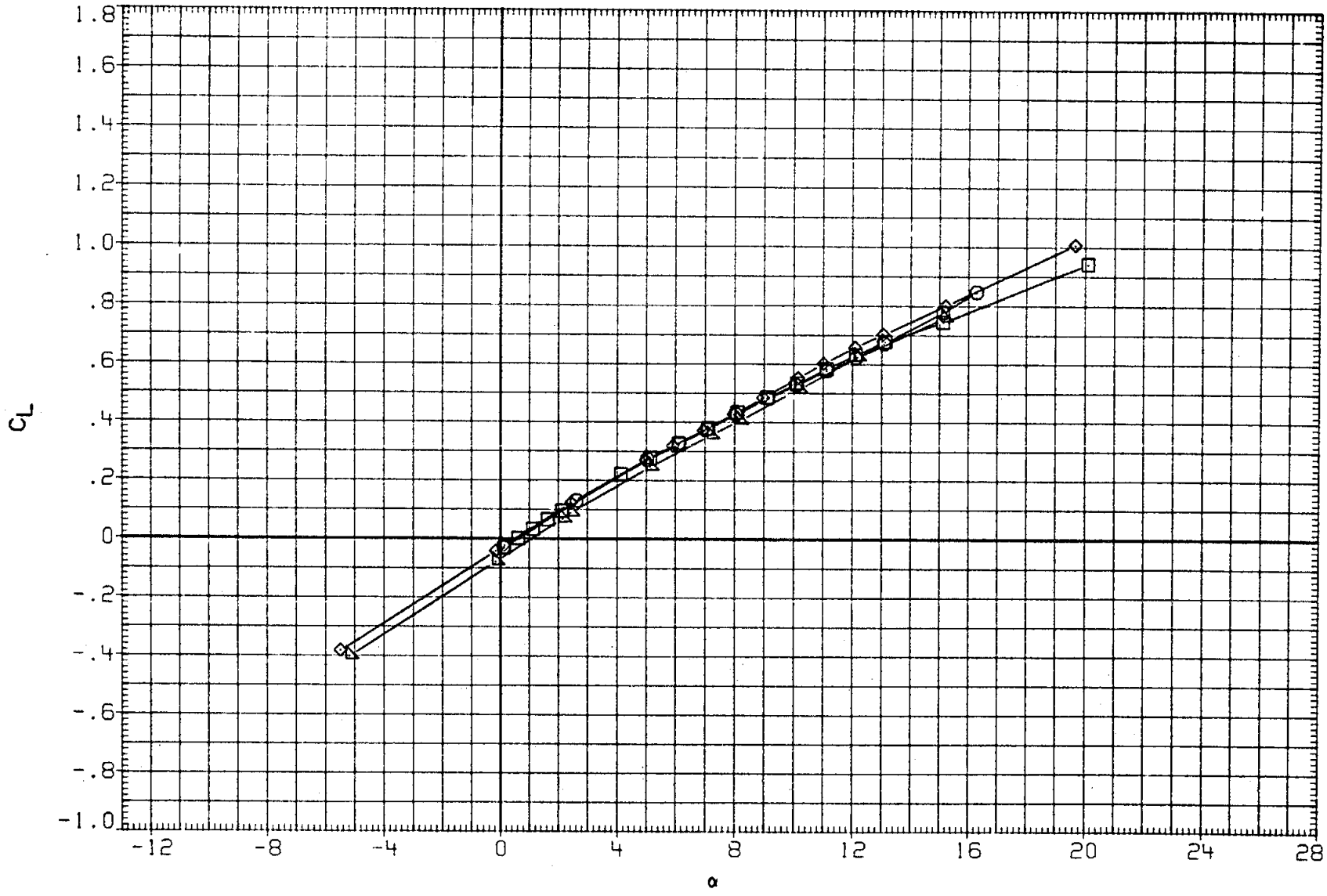

FIGURE 20. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 87.2 DEG.

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0015	△	DATA NOT AVAILABLE	.000	.000	.000	.000	86.810	-.040	.000
R2F0B5	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	87.200	.000	

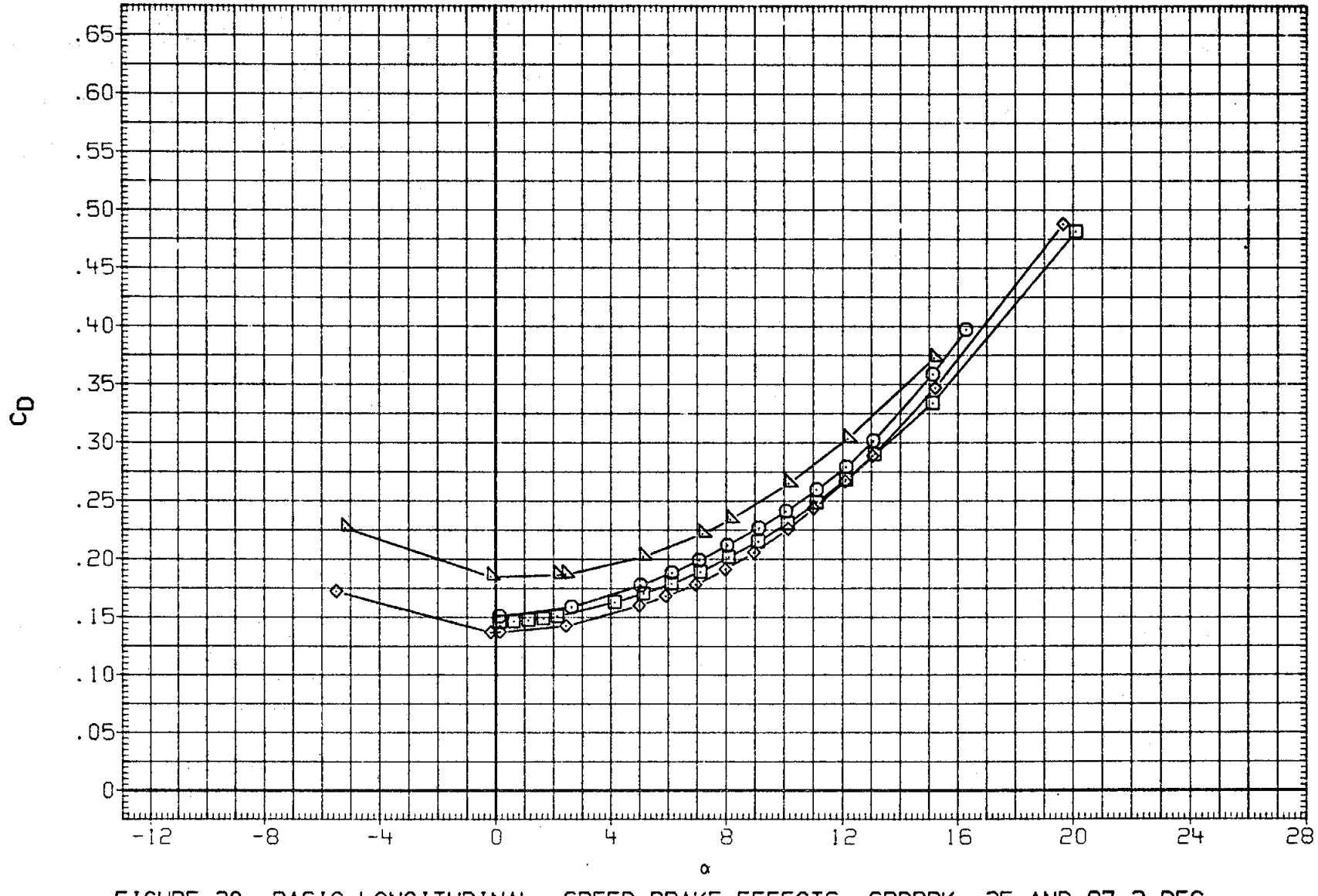

FIGURE 20. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 87.2 DEG.

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0015	△	DATA NOT AVAILABLE	.000	.000	.000	.000	86.810	-.040	.000
R2F085	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	87.200	.000	

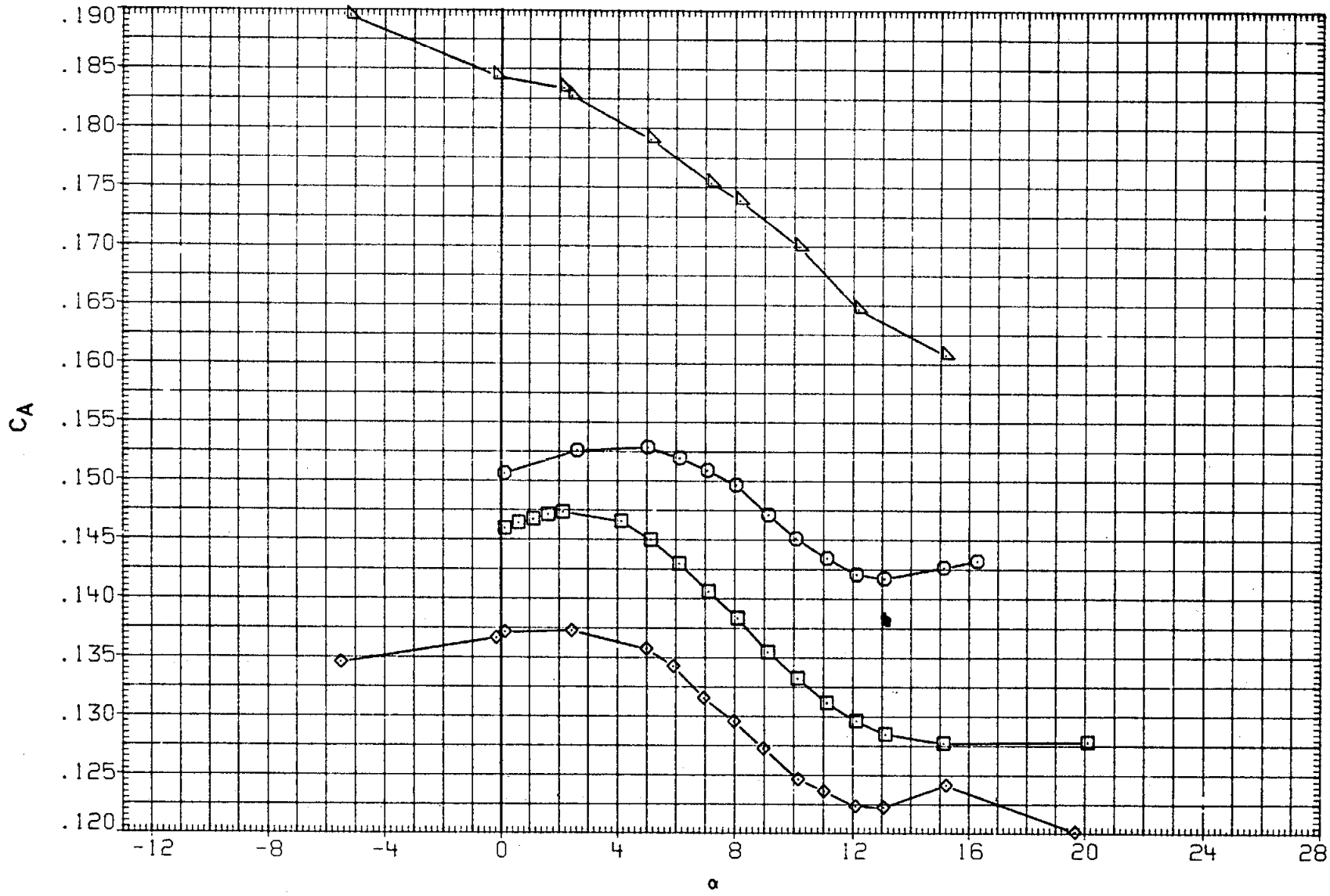

FIGURE 20. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 87.2 DEG.

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0015	△	DATA NOT AVAILABLE	.000	.000	.000	.000	86.810	-.040	.000
R2F0B5	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	87.200	.000	

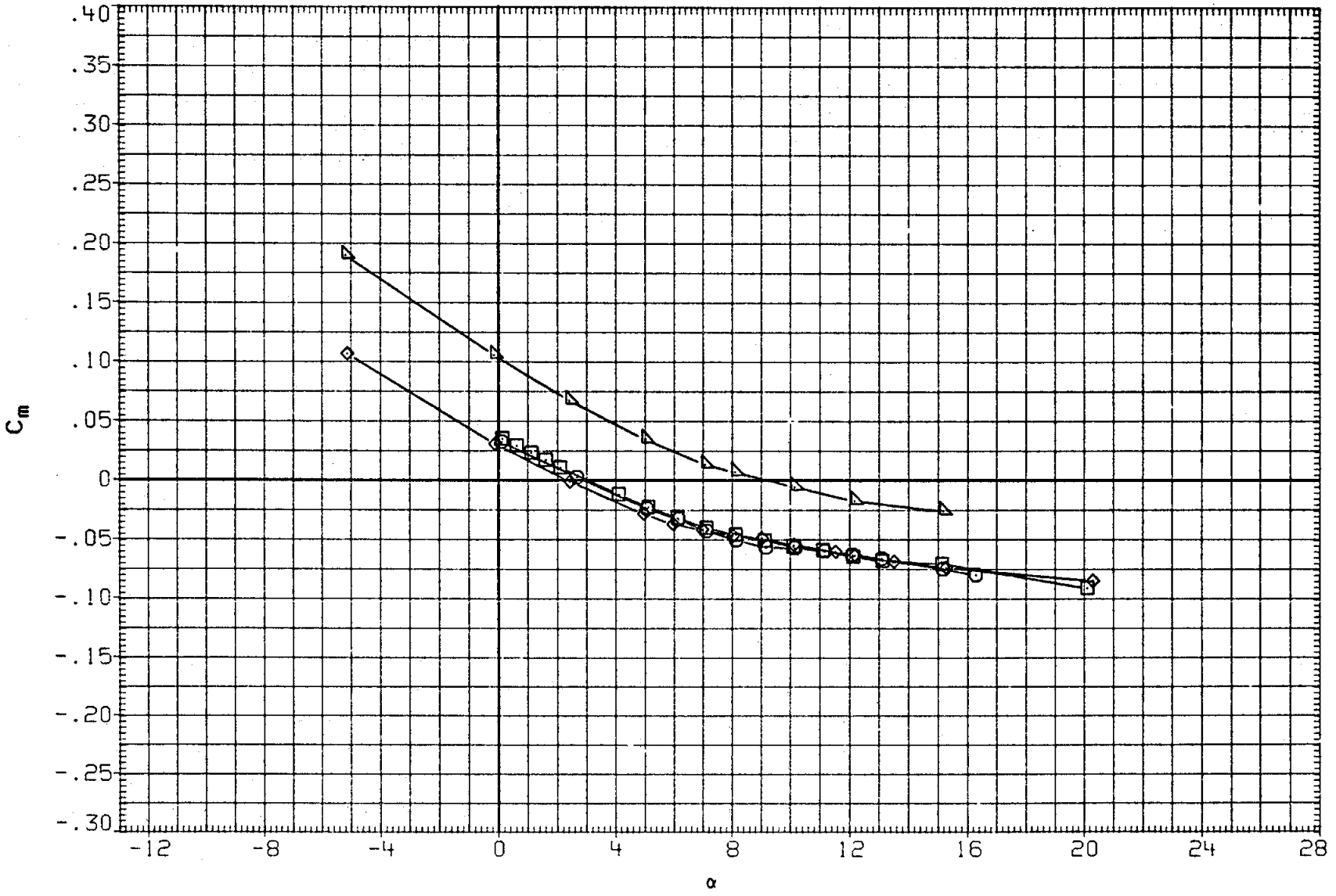

FIGURE 20. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 87.2 DEG.

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0015	△	DATA NOT AVAILABLE	.000	.000	.000	.000	86.810	-.040	.000
R2F0B5	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	87.200	.000	

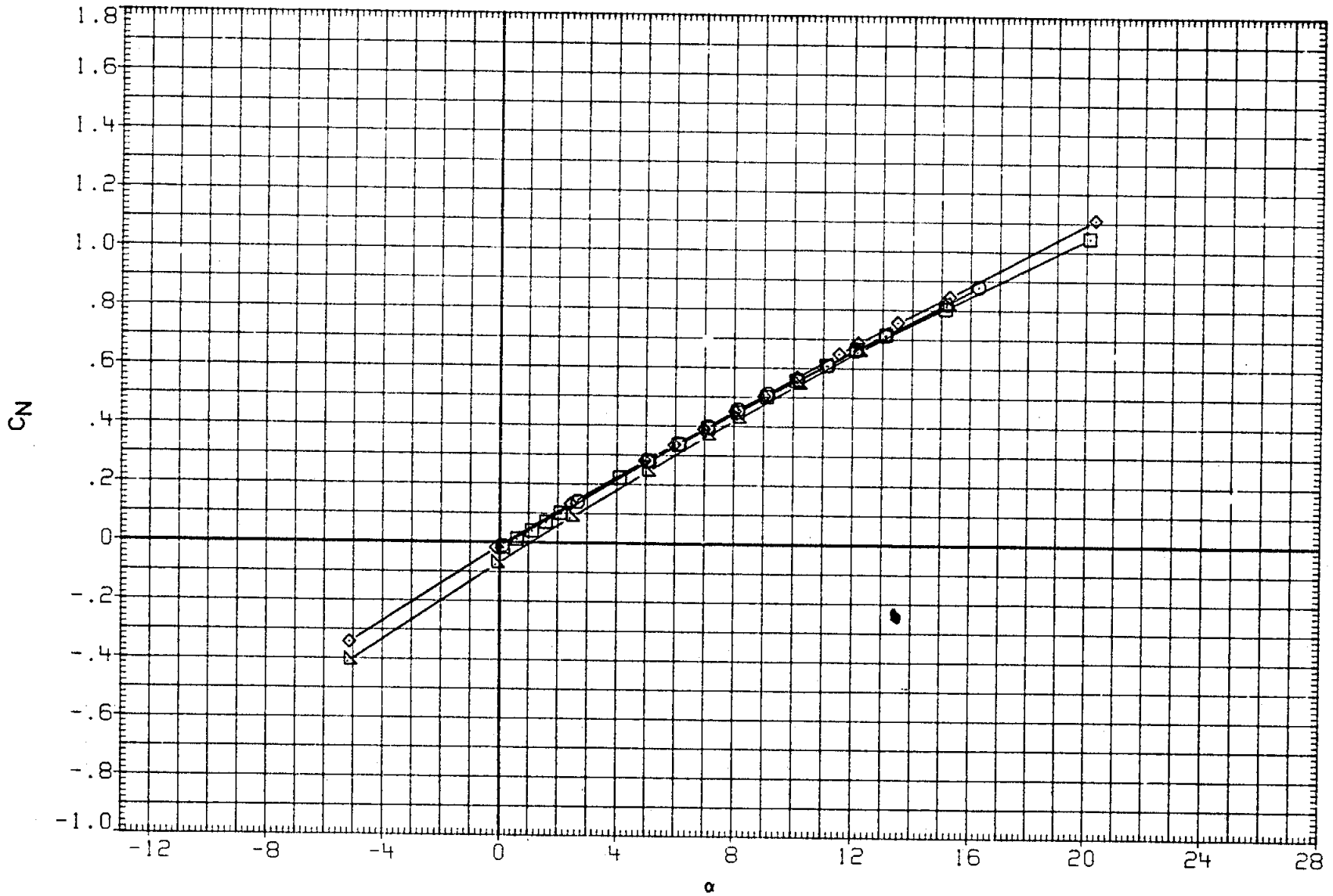

FIGURE 20. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 87.2 DEG.

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0015	△	DATA NOT AVAILABLE	.000	.000	.000	.000	86.810	-.040	.000
R2F0B5	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	87.200	.000	

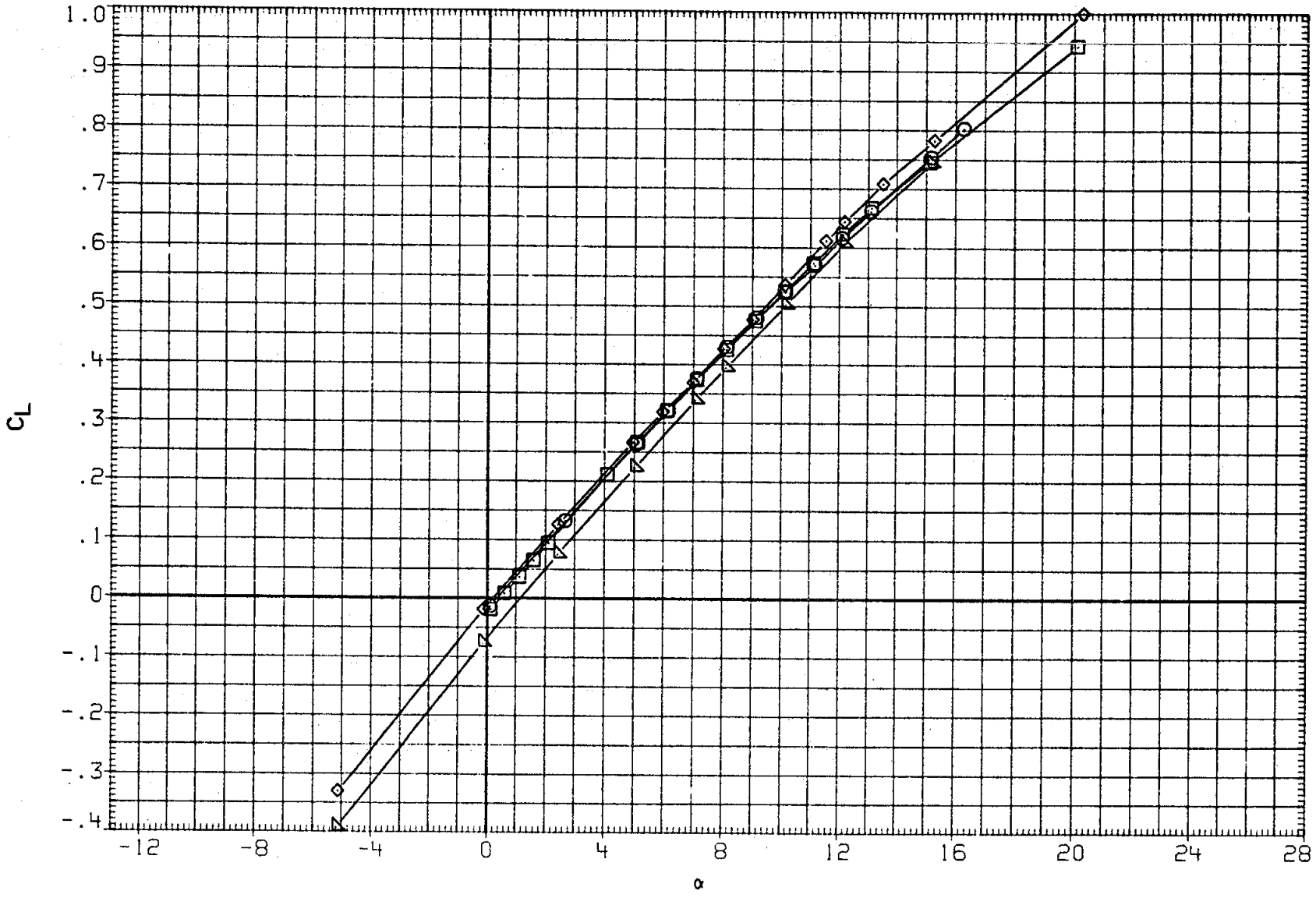

FIGURE 20. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 87.2 DEG.

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 11B-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0015	△	DATA NOT AVAILABLE	.000	.000	.000	.000	86.810	-.040	.000
R2F0B5	◺	AMES 11B-1-11 OA145A 01	.000	.000	.000	.000	87.200	.000	

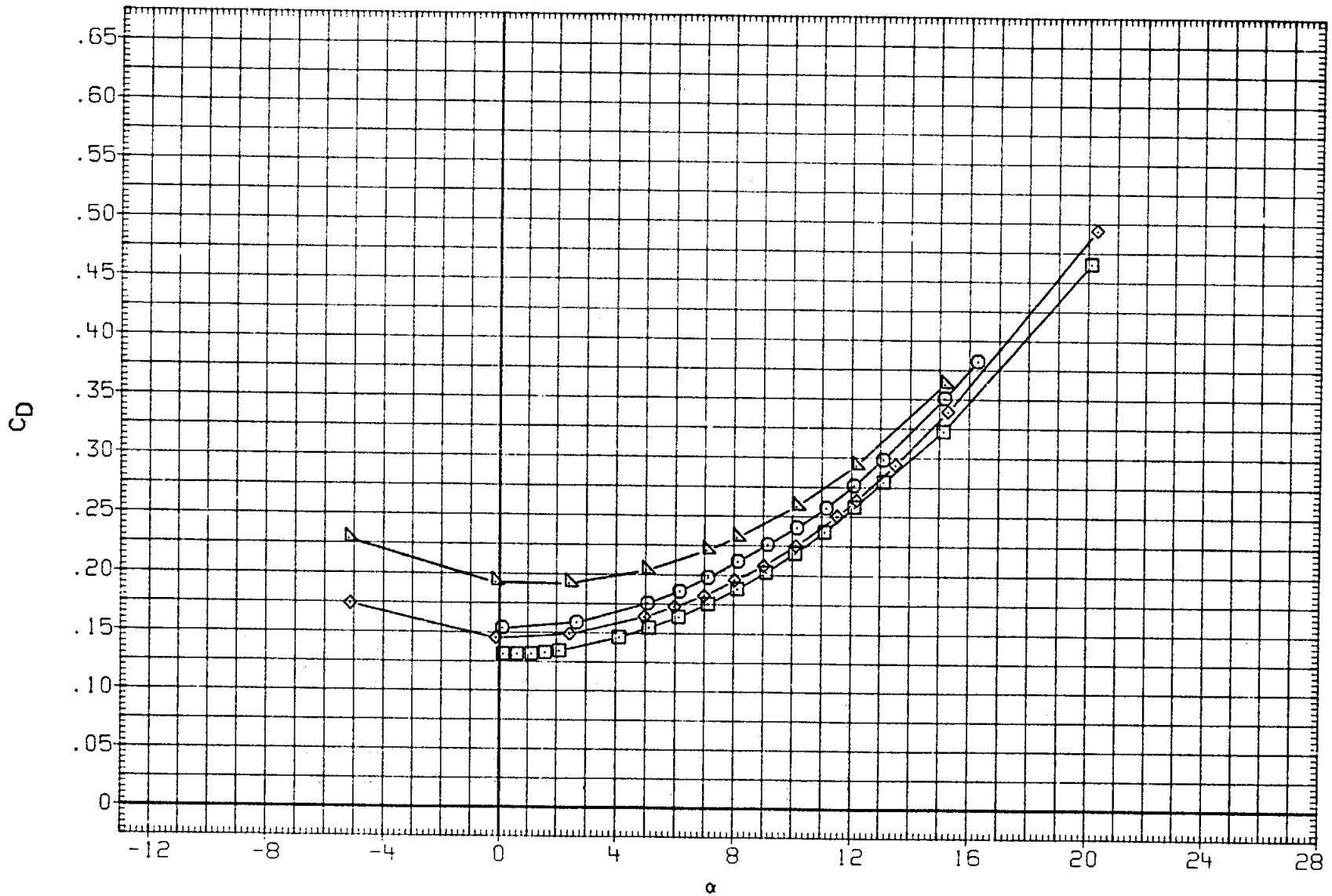

FIGURE 20. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 87.2 DEG.

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RKC015	△	DATA NOT AVAILABLE	.000	.000	.000	.000	86.810	-.040	.000
R2F085	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	87.200	.000	

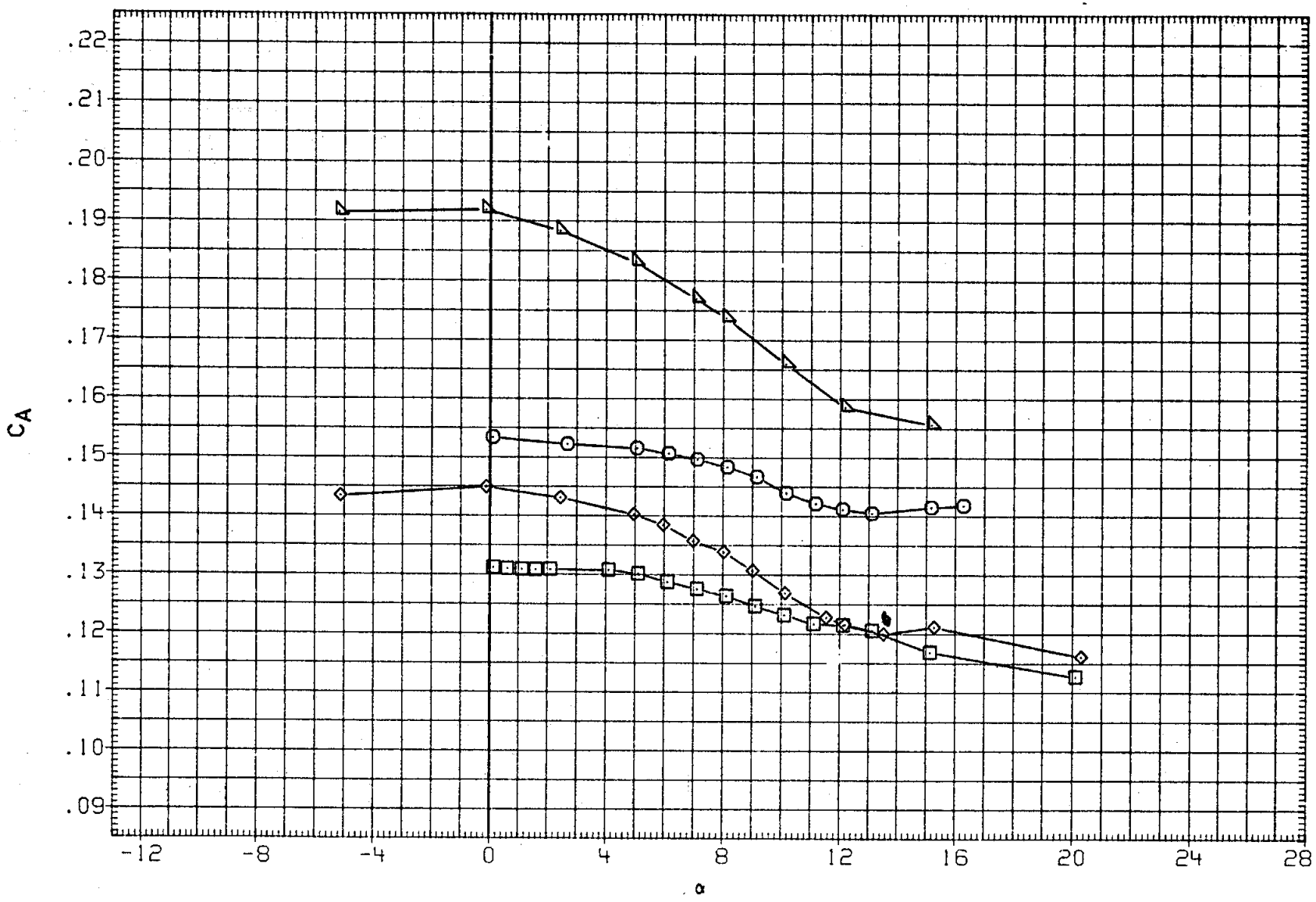

FIGURE 20. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 87.2 DEG.

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	25.000	.000	
RK0015	△	DATA NOT AVAILABLE	.000	.000	.000	.000	86.810	-.040	.000
R2F0B5	◺	DATA NOT AVAILABLE	.000	.000	.000	.000	87.200	.000	

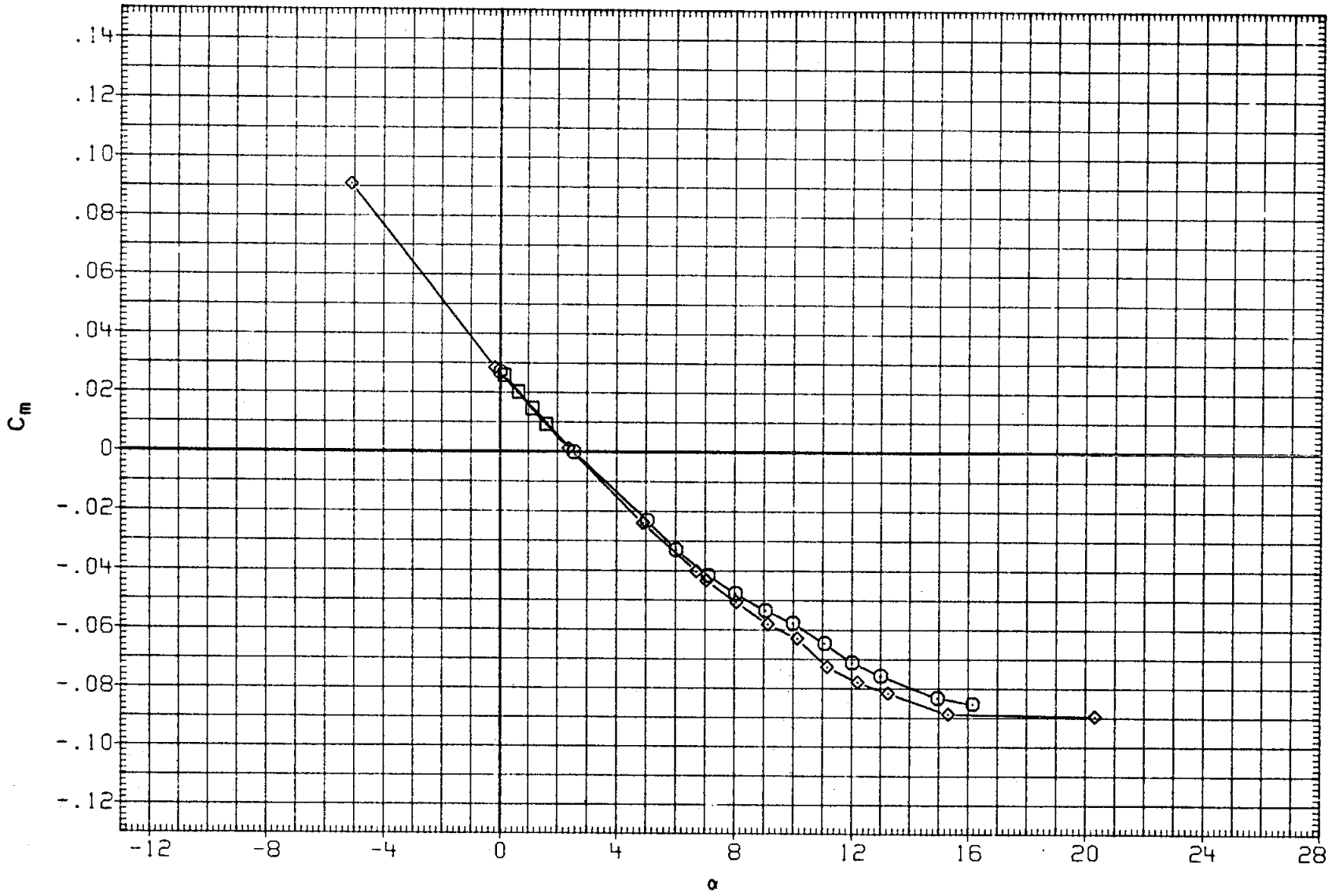

FIGURE 20. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 87.2 DEG.

(I)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.
R2F012	◇	AMES 118-1-11 OA145A 01
RK0015	△	DATA NOT AVAILABLE
R2F0B5	◺	DATA NOT AVAILABLE

BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
.000	.000	.000	.000	25.500	-.030	.000
.000	.000	.000	.000	25.000	.000	.000
.000	.000	.000	.000	25.000	.000	
.000	.000	.000	.000	86.810	-.040	.000
.000	.000	.000	.000	87.200	.000	

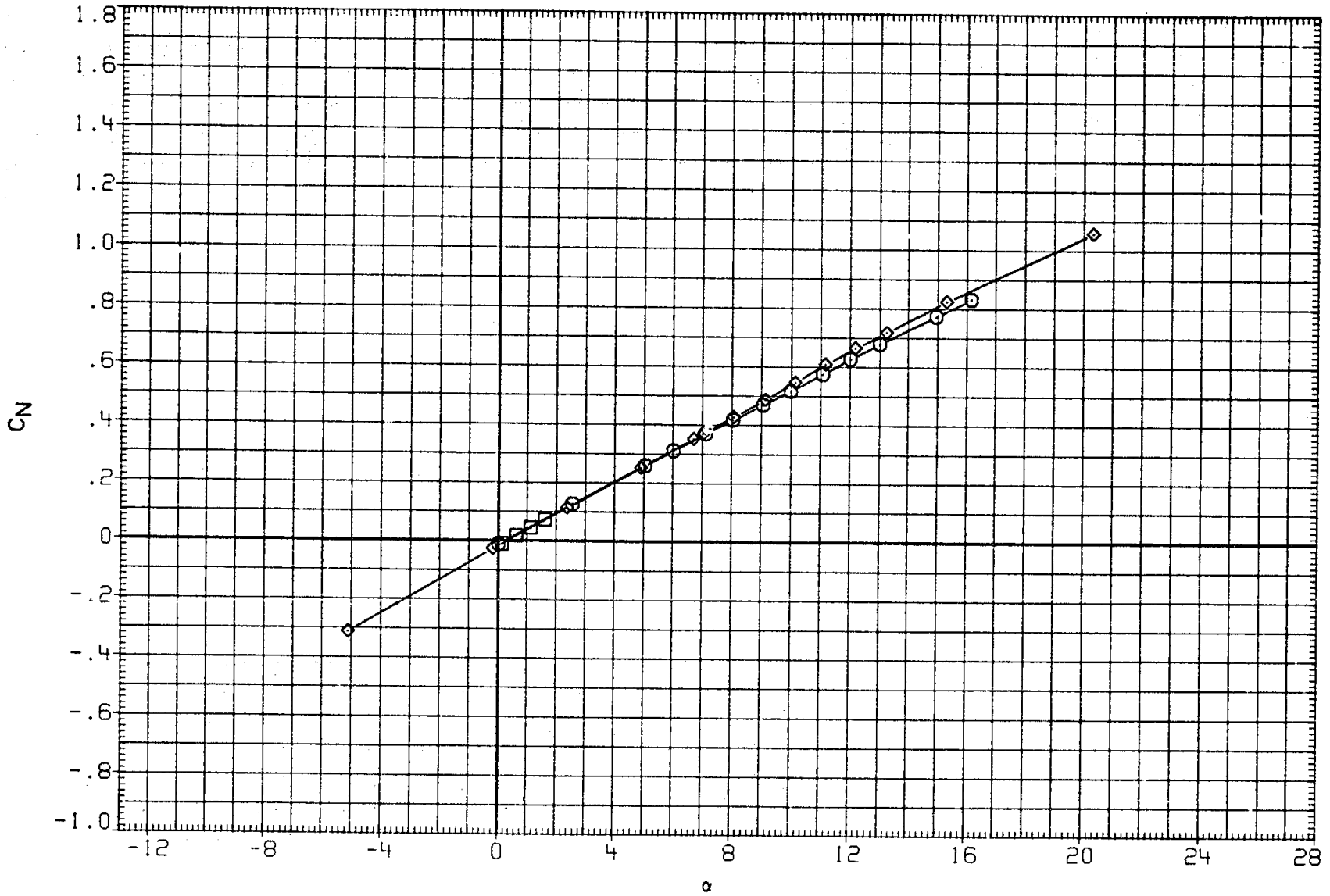

FIGURE 20. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 87.2 DEG.

(I)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 11B-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0015	△	DATA NOT AVAILABLE	.000	.000	.000	.000	86.810	-.040	.000
R2F0B5	◺	DATA NOT AVAILABLE	.000	.000	.000	.000	87.200	.000	

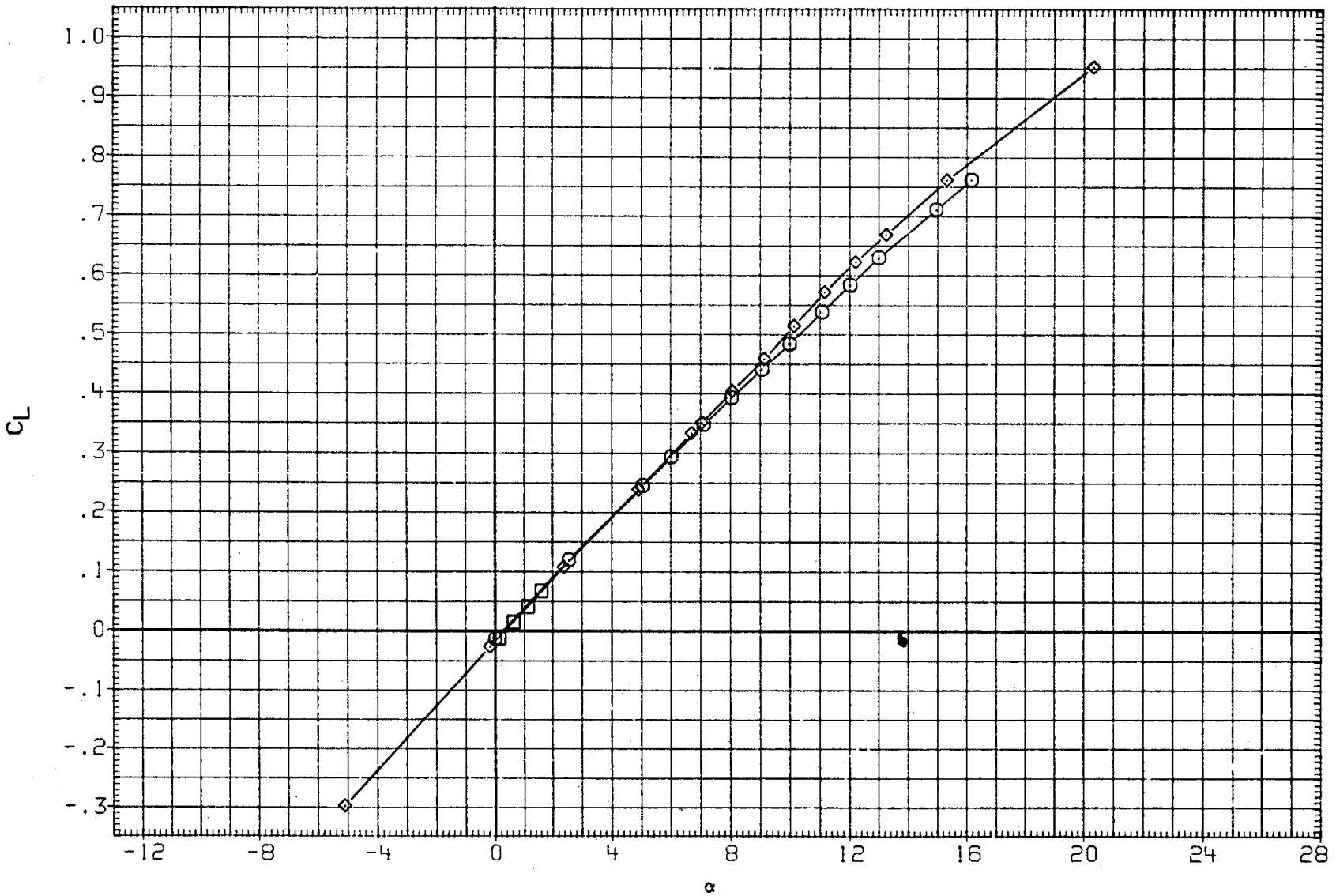

FIGURE 20. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 87.2 DEG.

(I)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0015	△	DATA NOT AVAILABLE	.000	.000	.000	.000	86.810	-.040	.000
R2F085	◺	DATA NOT AVAILABLE	.000	.000	.000	.000	87.200	.000	

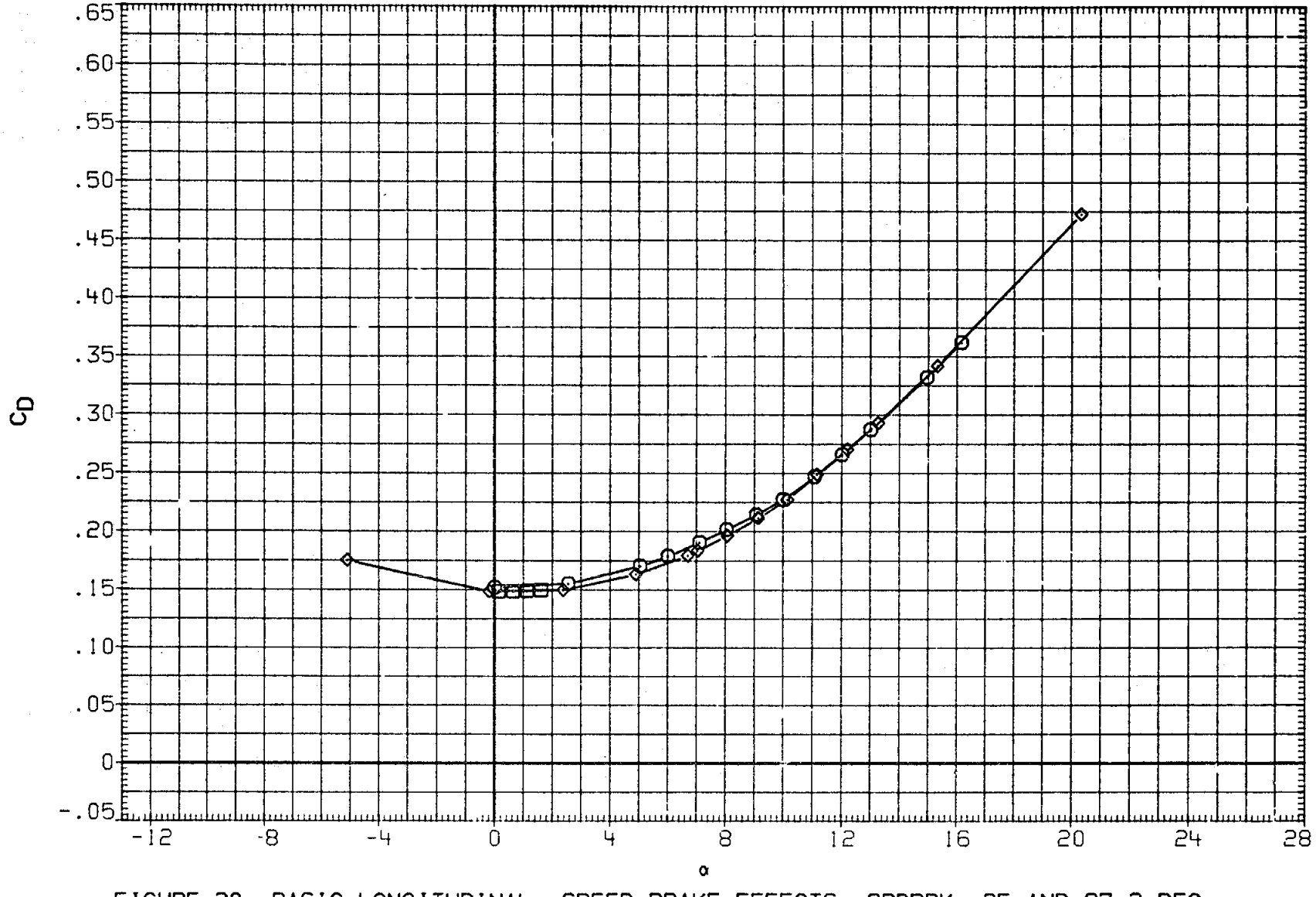

FIGURE 20. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 87.2 DEG.

(I)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0015	△	DATA NOT AVAILABLE	.000	.000	.000	.000	86.810	-.040	.000
R2F085	◺	DATA NOT AVAILABLE	.000	.000	.000	.000	87.200	.000	

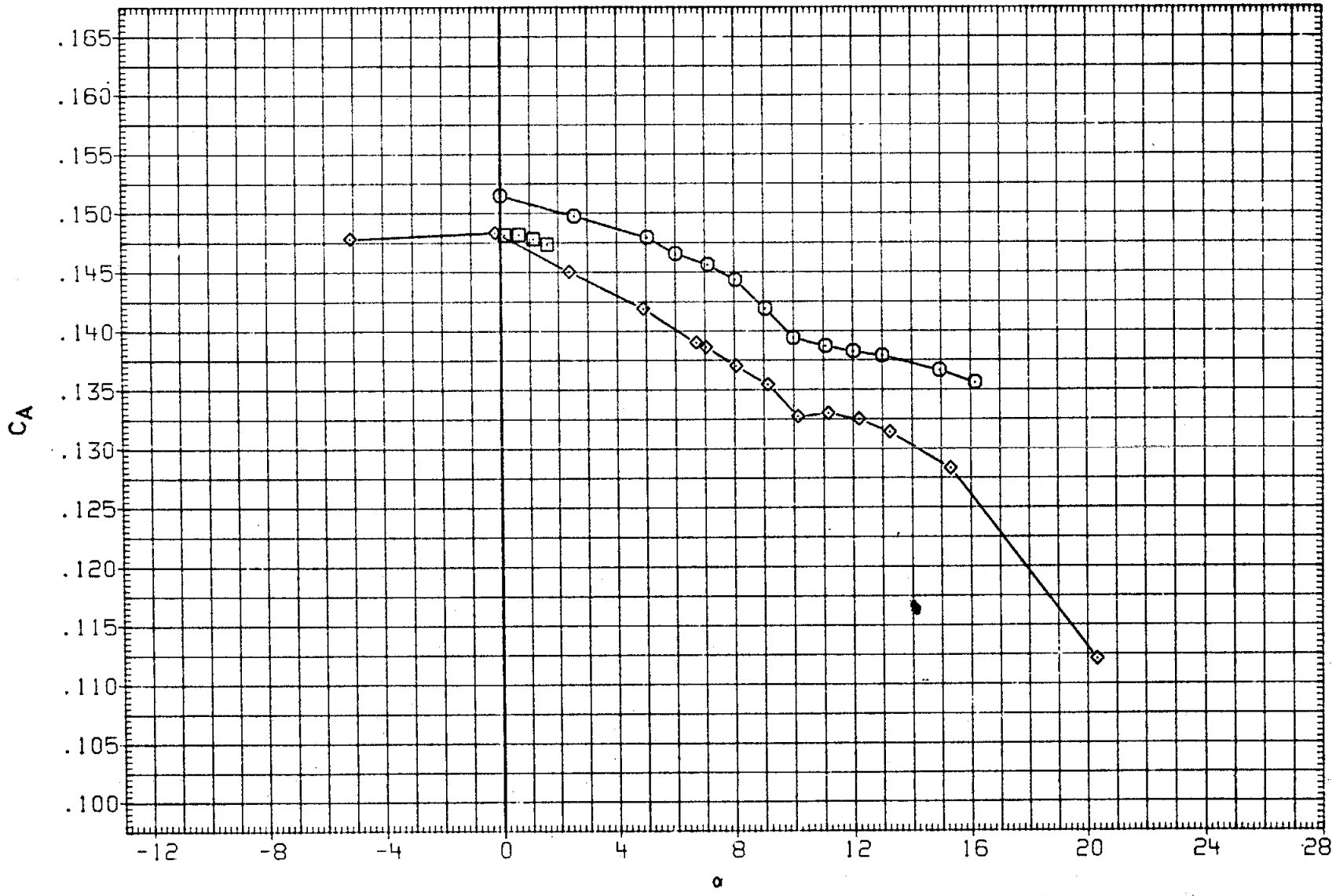

FIGURE 20. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 87.2 DEG.

(I)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0015	△	DATA NOT AVAILABLE	.000	.000	.000	.000	86.810	-.040	.000
R2F0B5	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	87.200	.000	

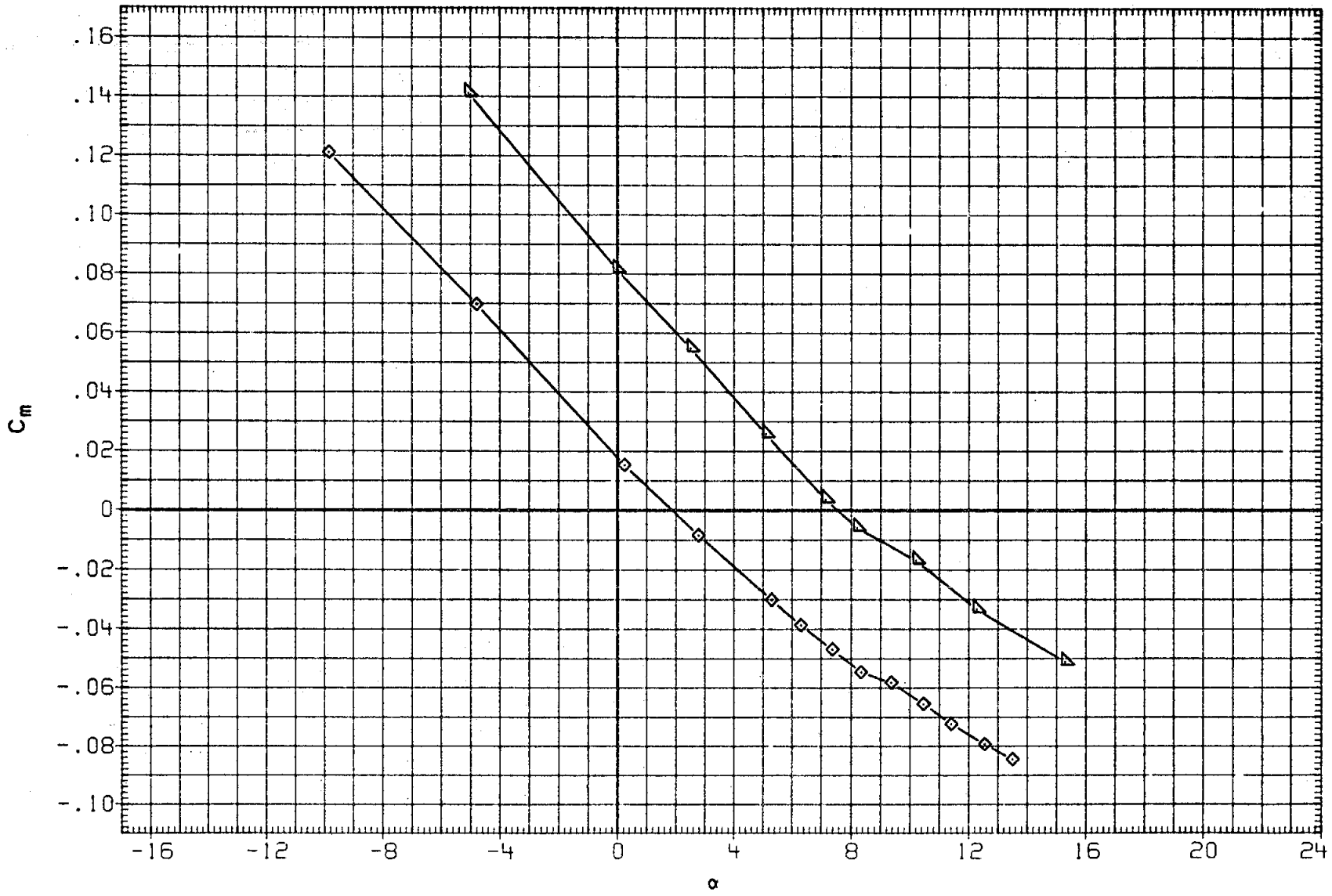

FIGURE 20. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 87.2 DEG.

(J)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0015	△	DATA NOT AVAILABLE	.000	.000	.000	.000	86.810	-.040	.000
R2F0B5	◁	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	87.200	.000	

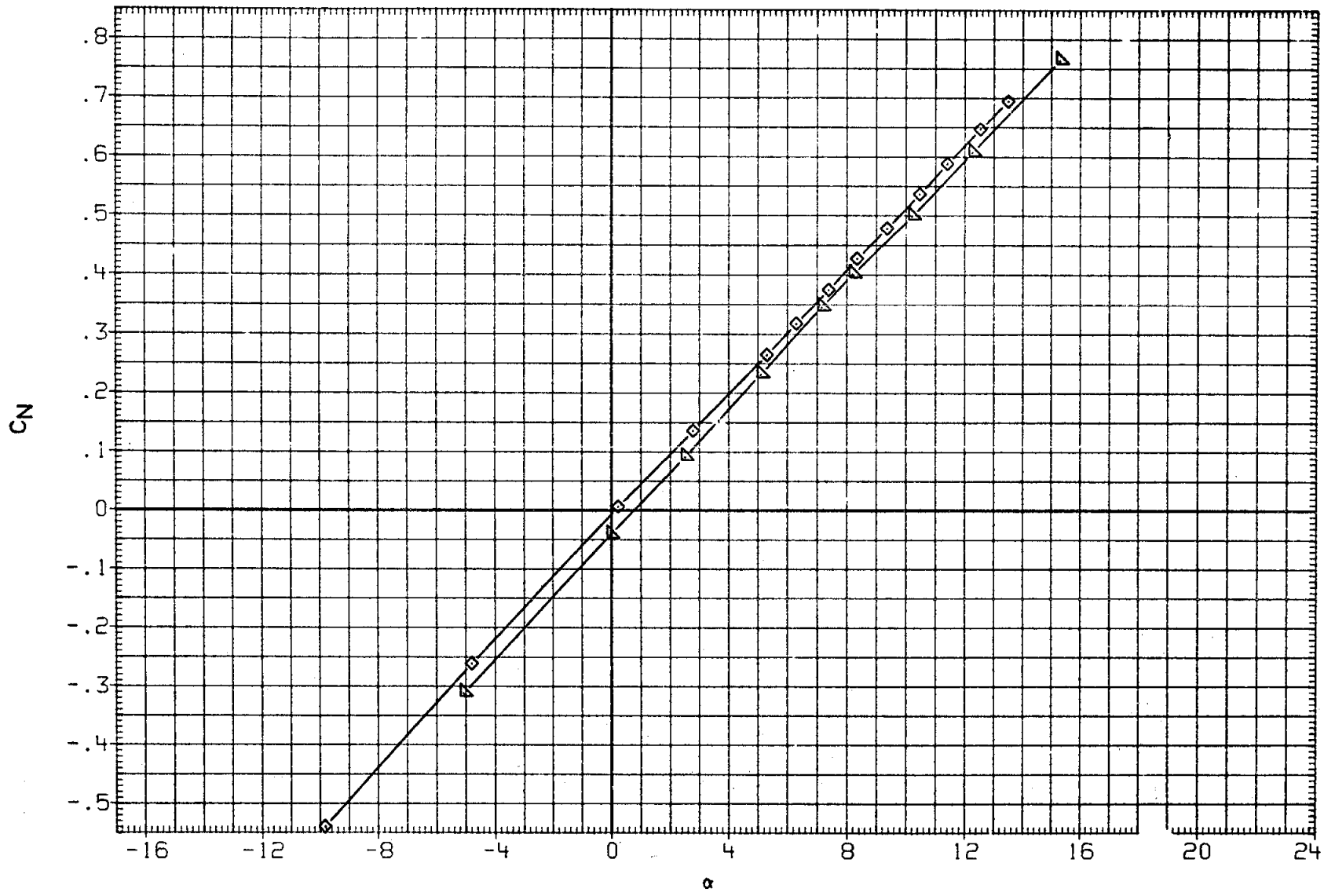

FIGURE 20. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 87.2 DEG.

(J)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0015	△	DATA NOT AVAILABLE	.000	.000	.000	.000	86.810	-.040	.000
R2F0B5	◁	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	87.200	.000	

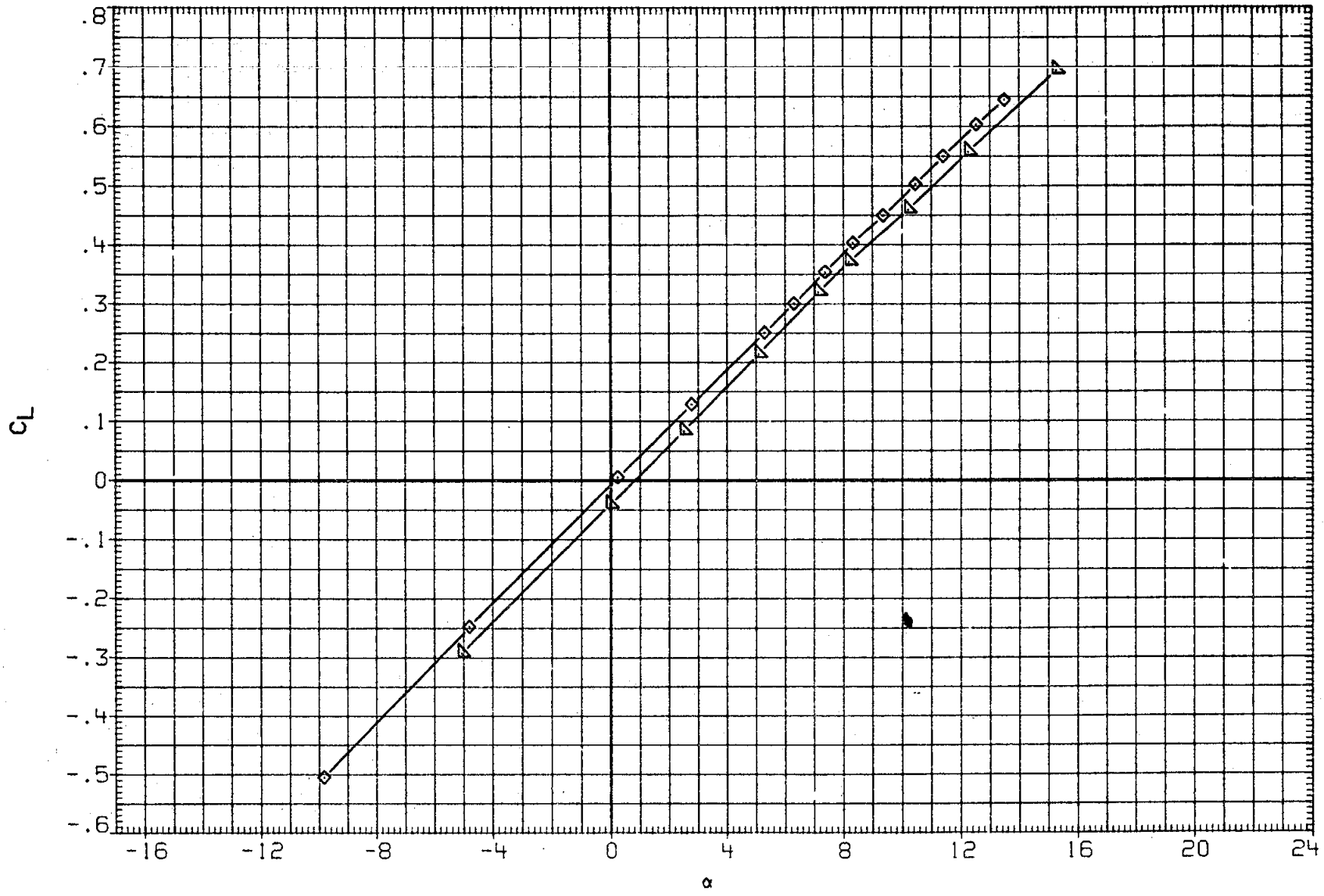

FIGURE 20. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 87.2 DEG.

(J)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0015	△	DATA NOT AVAILABLE	.000	.000	.000	.000	86.810	-.040	.000
R2F085	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	87.200	.000	

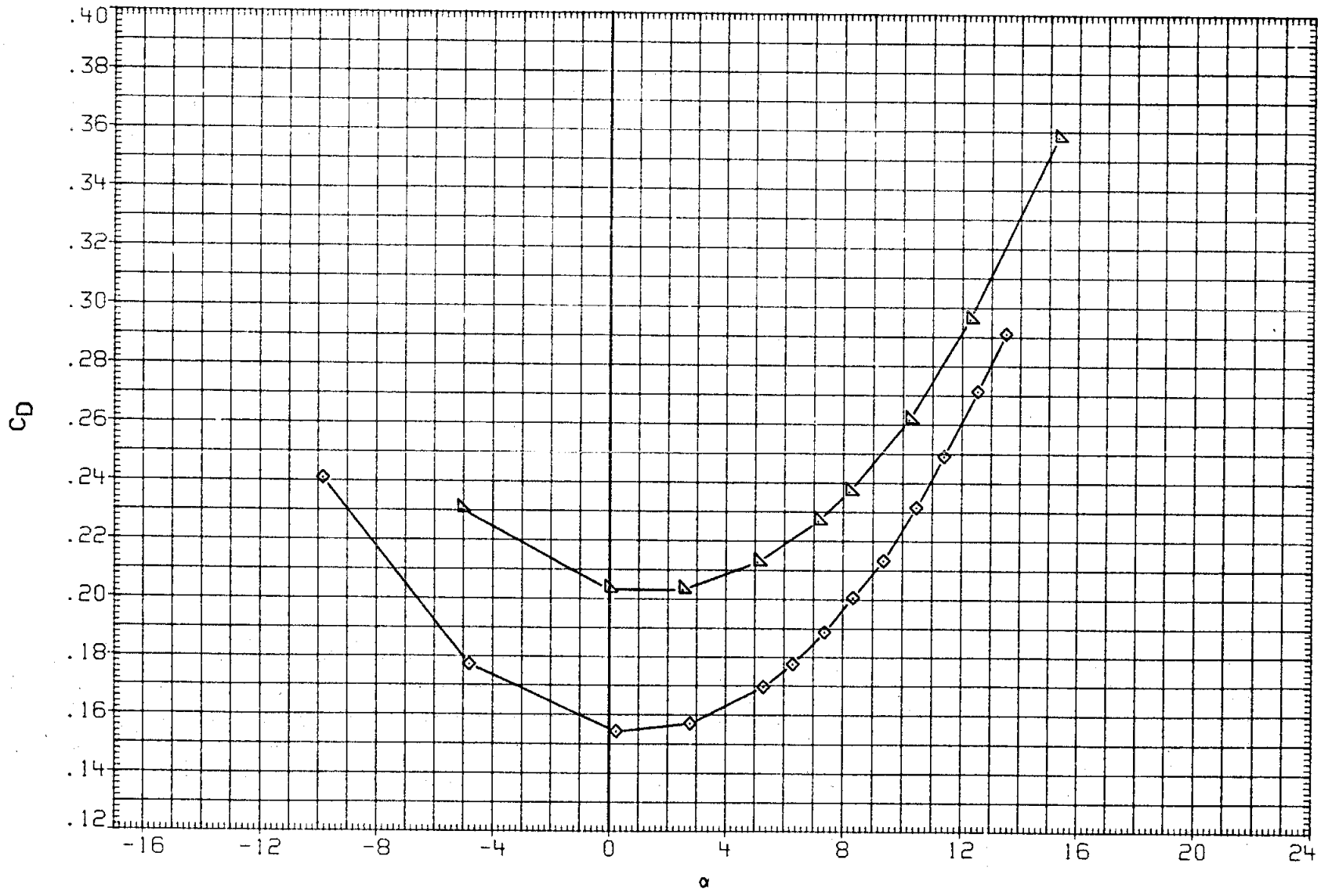

FIGURE 20. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 87.2 DEG.

(J)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0015	△	DATA NOT AVAILABLE	.000	.000	.000	.000	86.810	-.040	.000
R2F085	◺	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	87.200	.000	

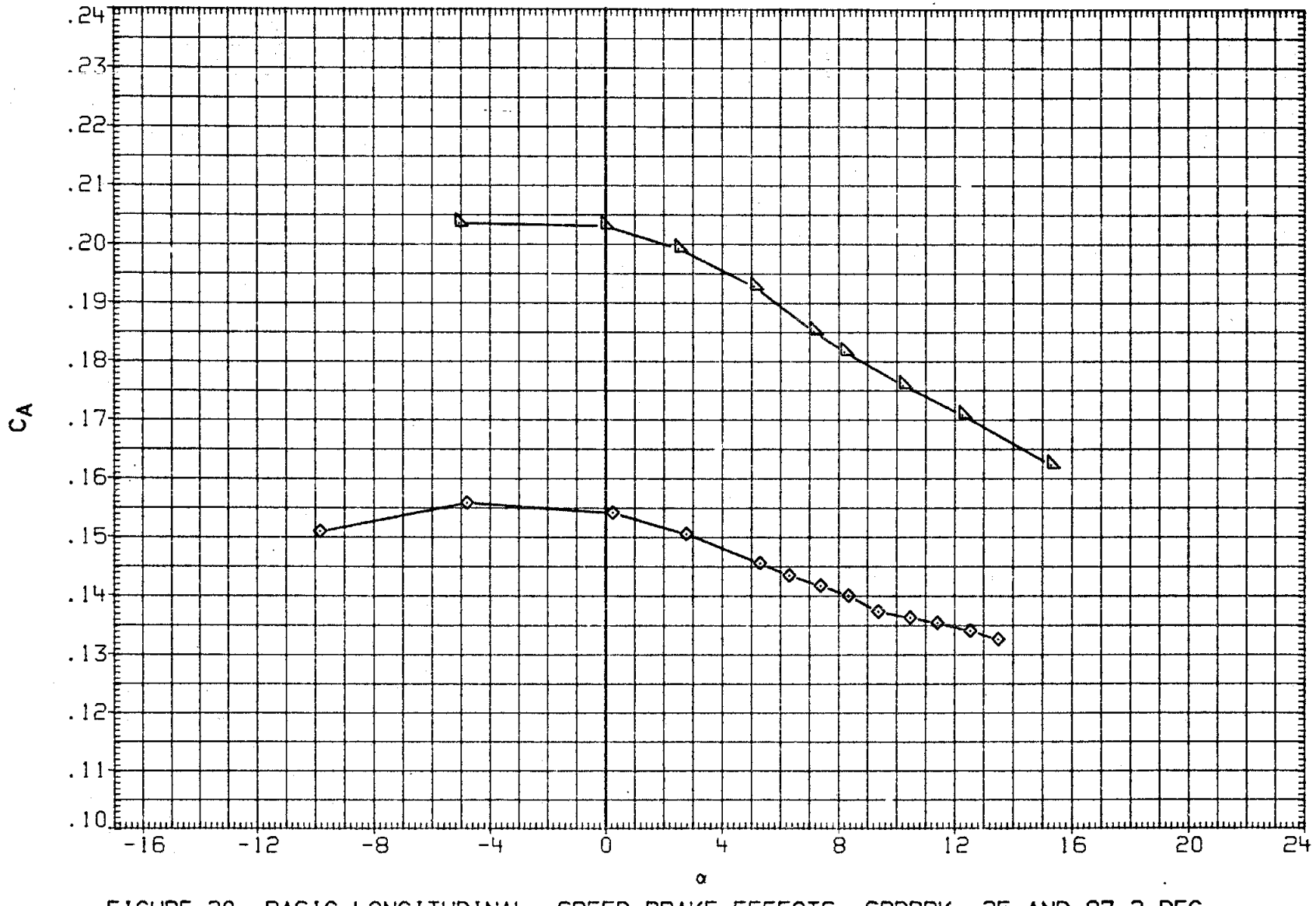

FIGURE 20. BASIC LONGITUDINAL, SPEED BRAKE EFFECTS, SPDBRK= 25 AND 87.2 DEG.

(J)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	AMES 118-1-11 0A145A 01	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	AMES 118-1-11 0A145A 01	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	D	AMES 118-1-11 0A145A 01	5.000	.000	.000	.000	55.000	.000	

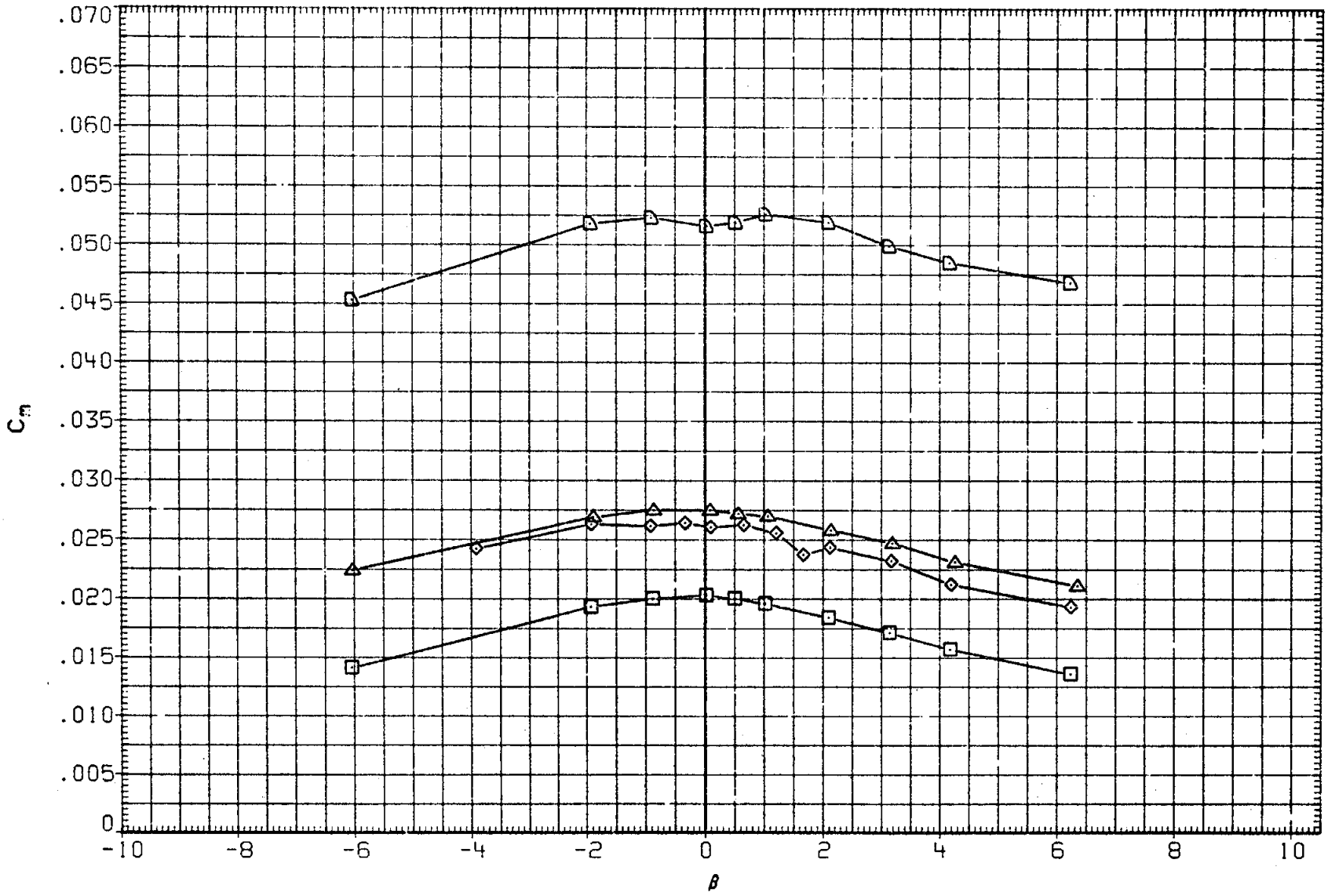

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	AMES 118-1-11 0A145A 01	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	AMES 118-1-11 0A145A 01	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	D	AMES 118-1-11 0A145A 01	5.000	.000	.000	.000	55.000	.000	

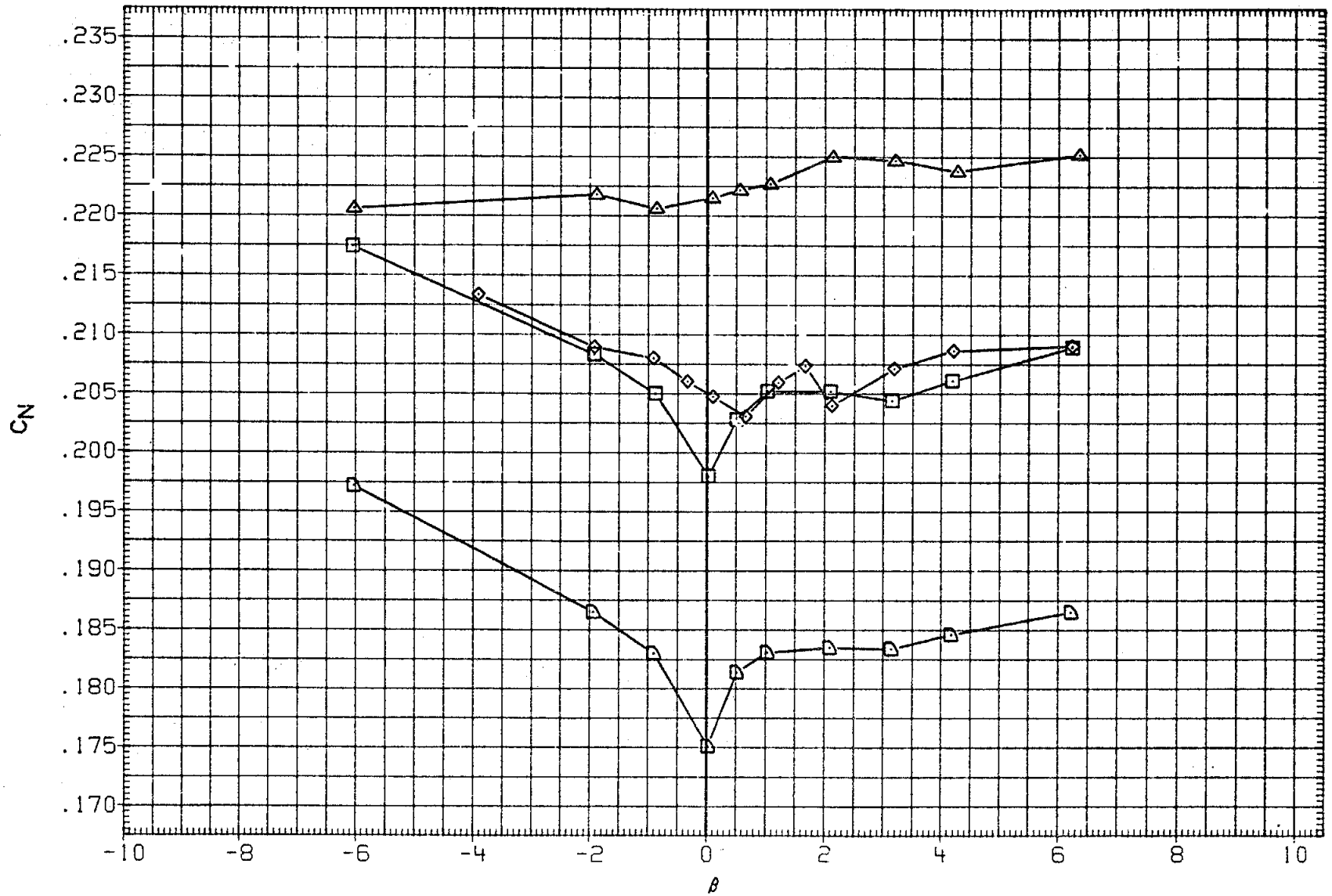

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	AMES 118-1-11 0A145A 01	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	AMES 118-1-11 0A145A 01	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	◸	AMES 118-1-11 0A145A 01	5.000	.000	.000	.000	55.000	.000	

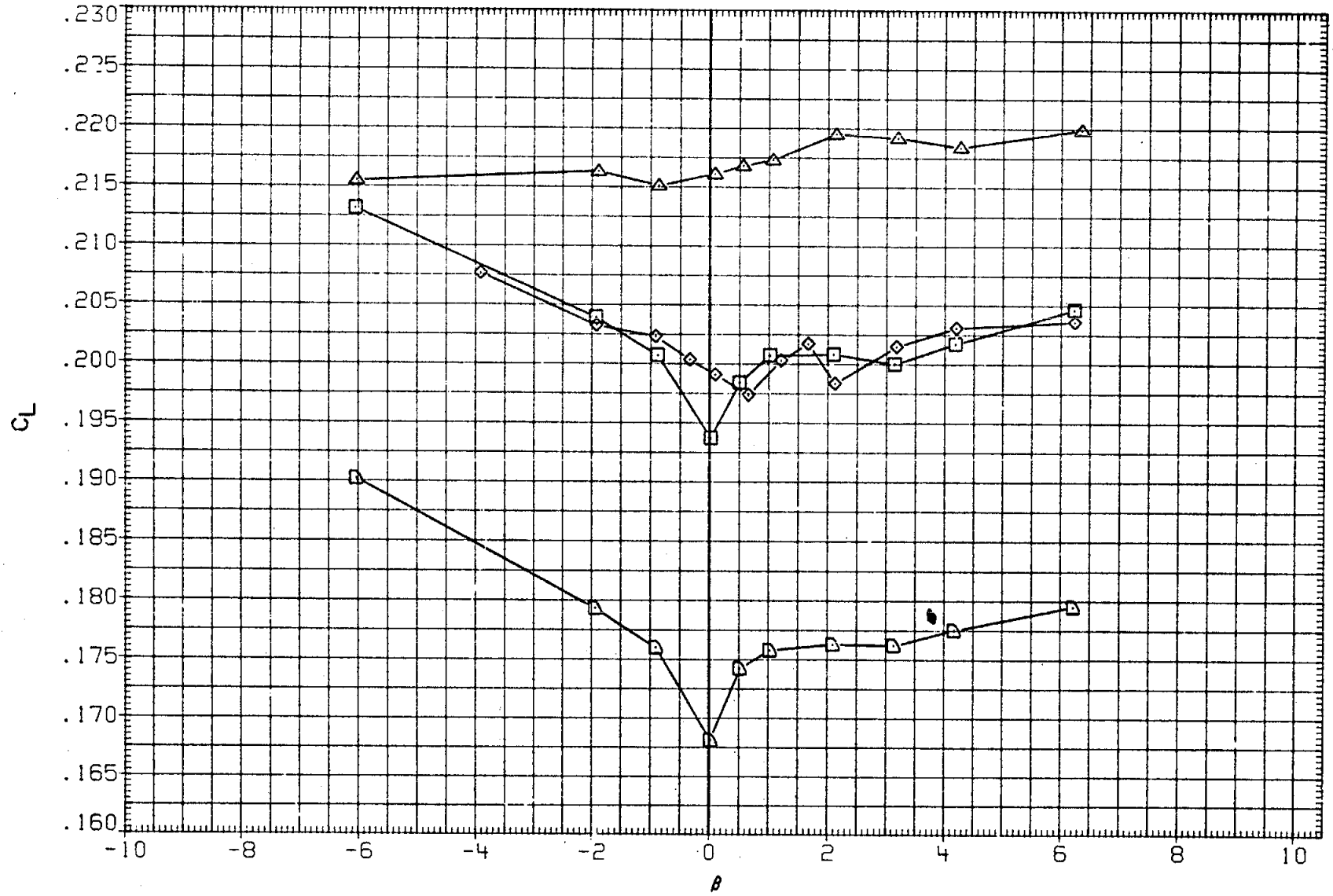

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	D	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	55.000	.000	

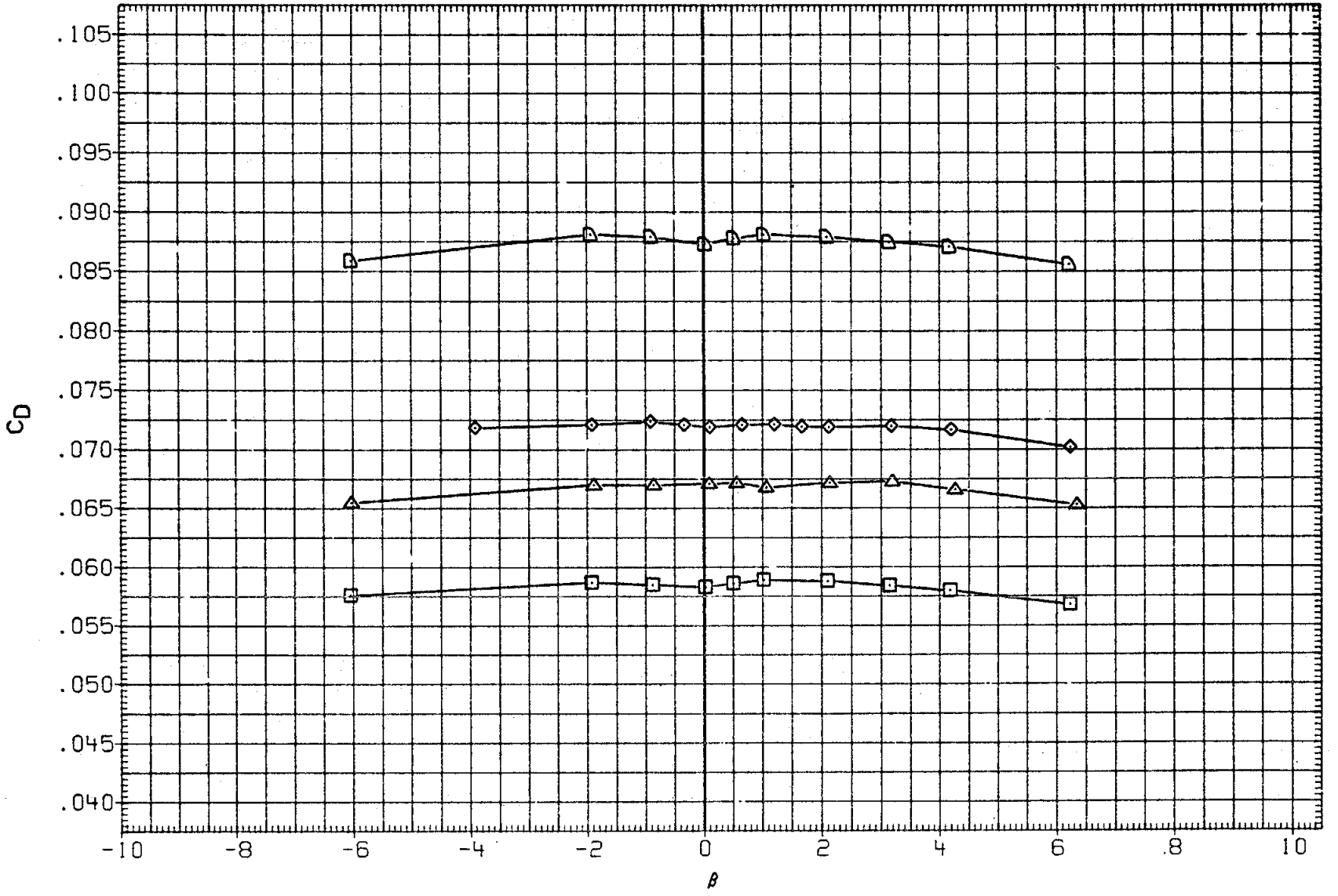

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	AMES 11E-1-11 OA145A 01	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	◻	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	55.000	.000	

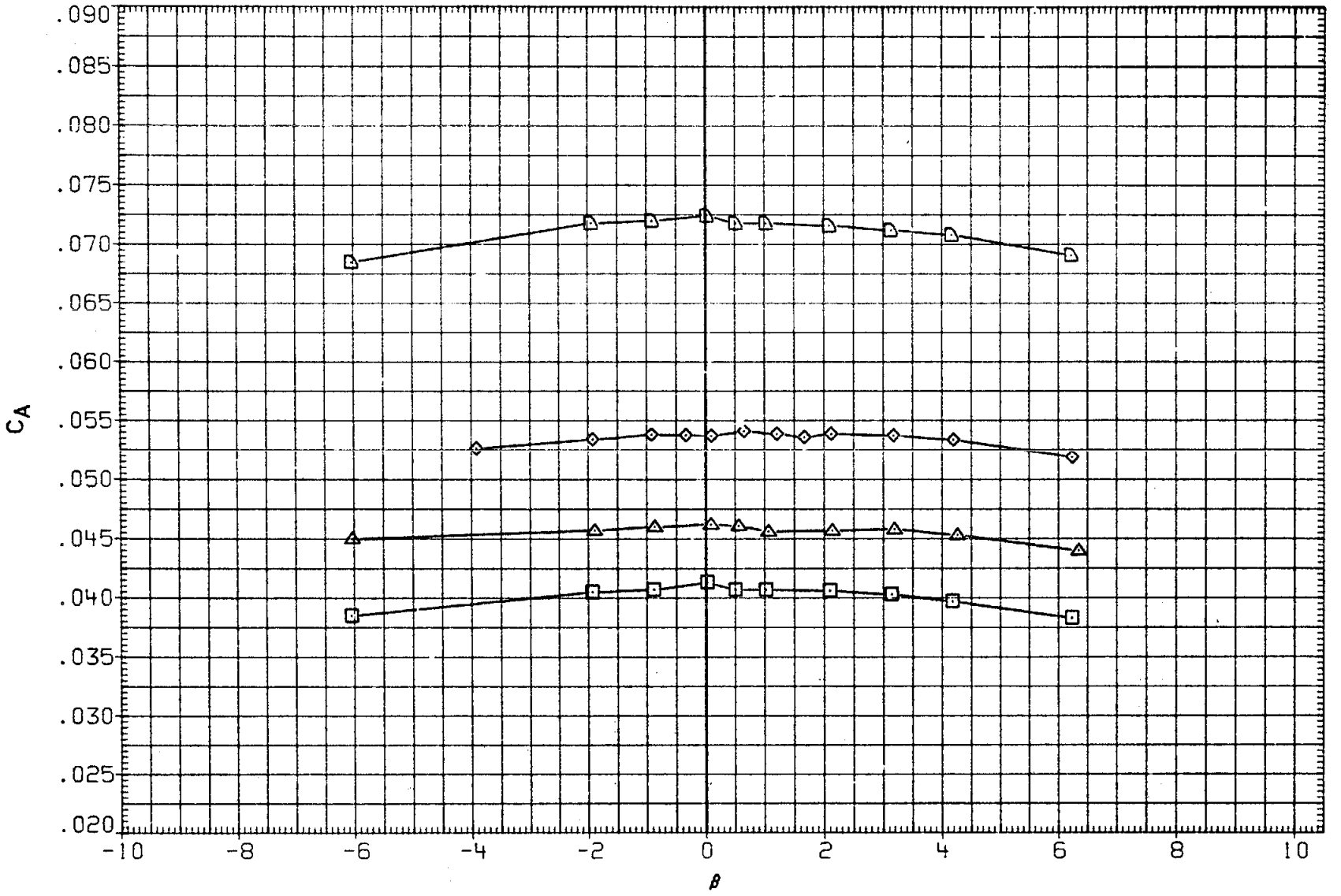

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RK0032	◁	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	D	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.000	.000	

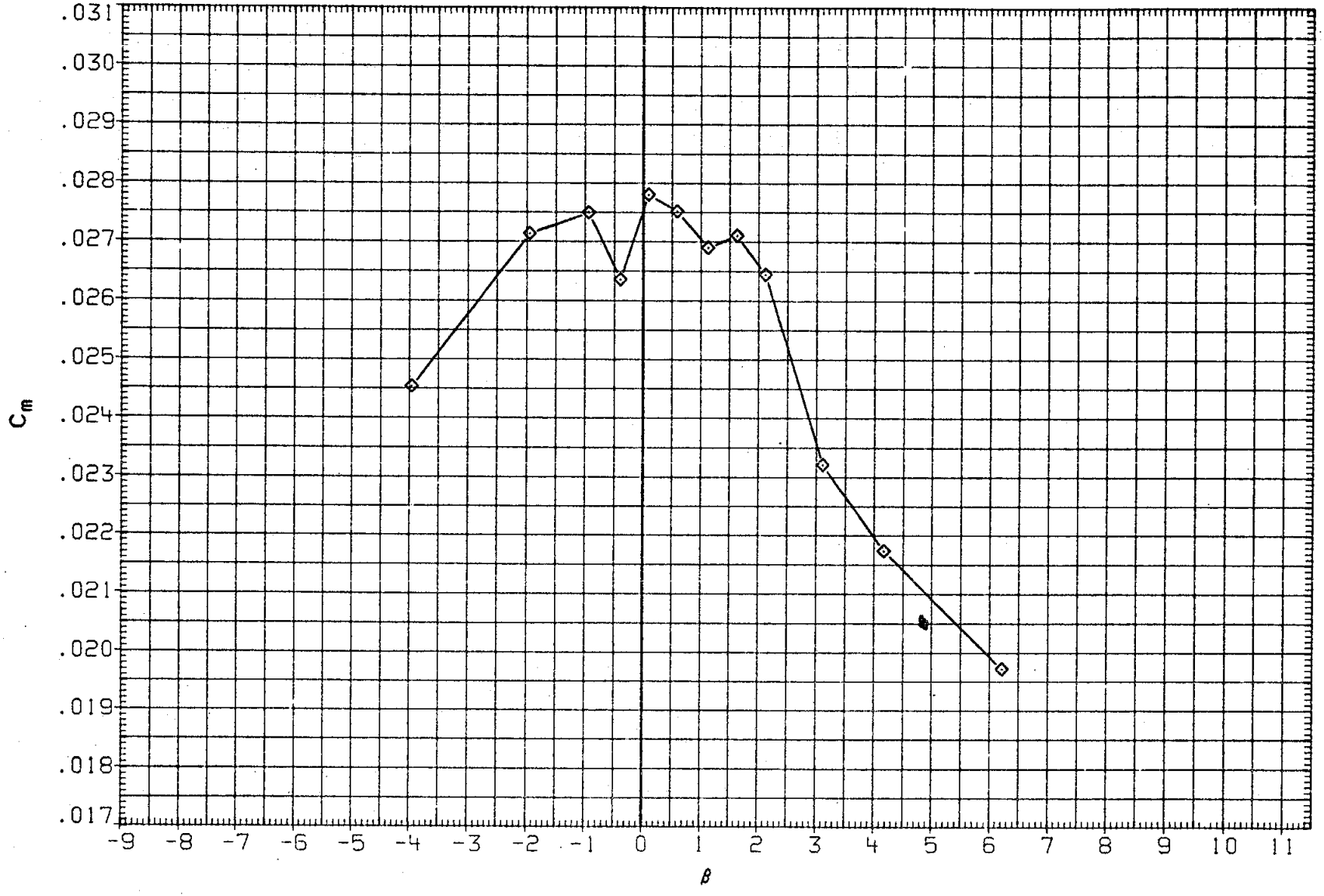

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(B)MACH = .70

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	◗	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.000	.000	

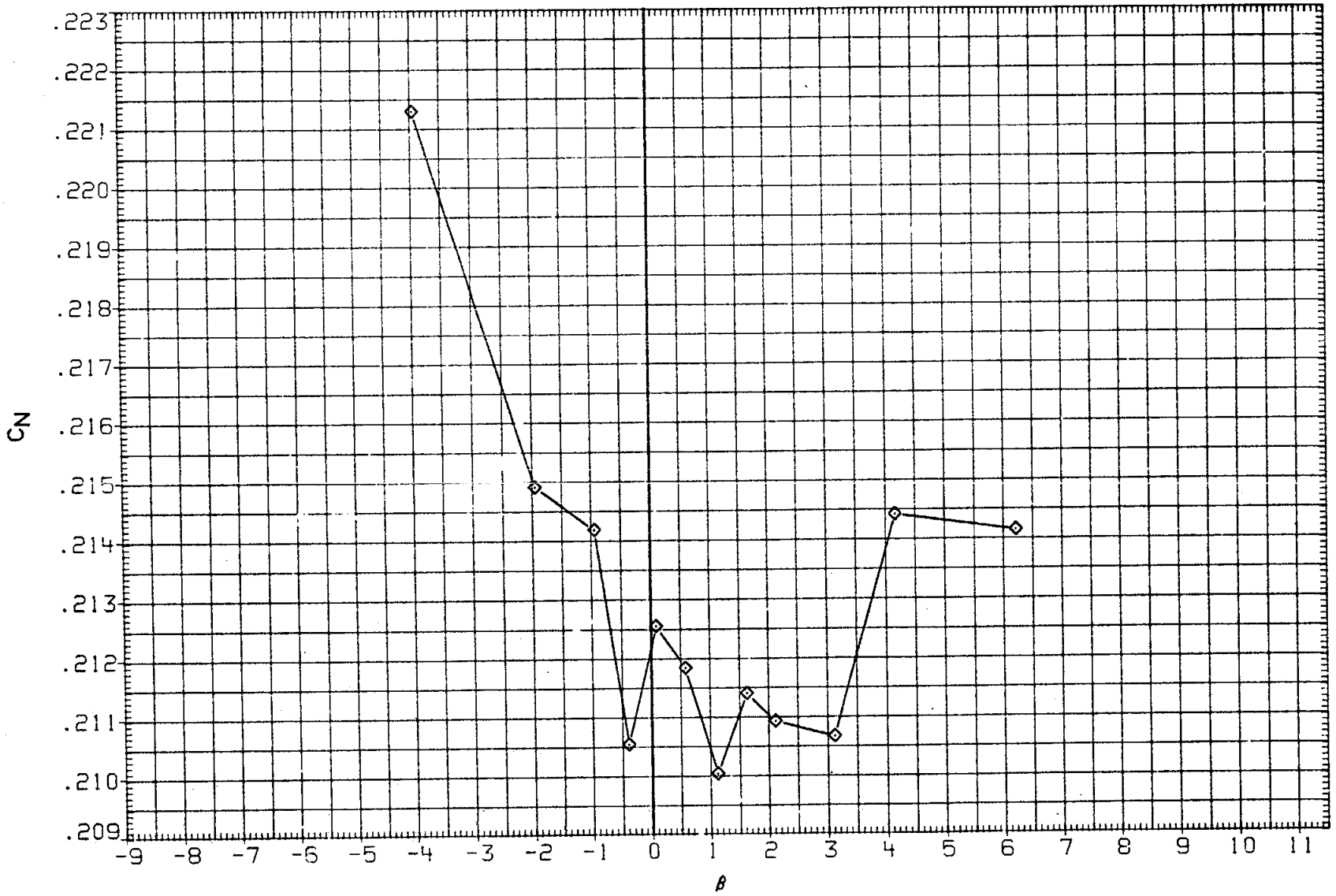

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(B)MACH = .70

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RK0032	◁	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	▷	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.000	.000	

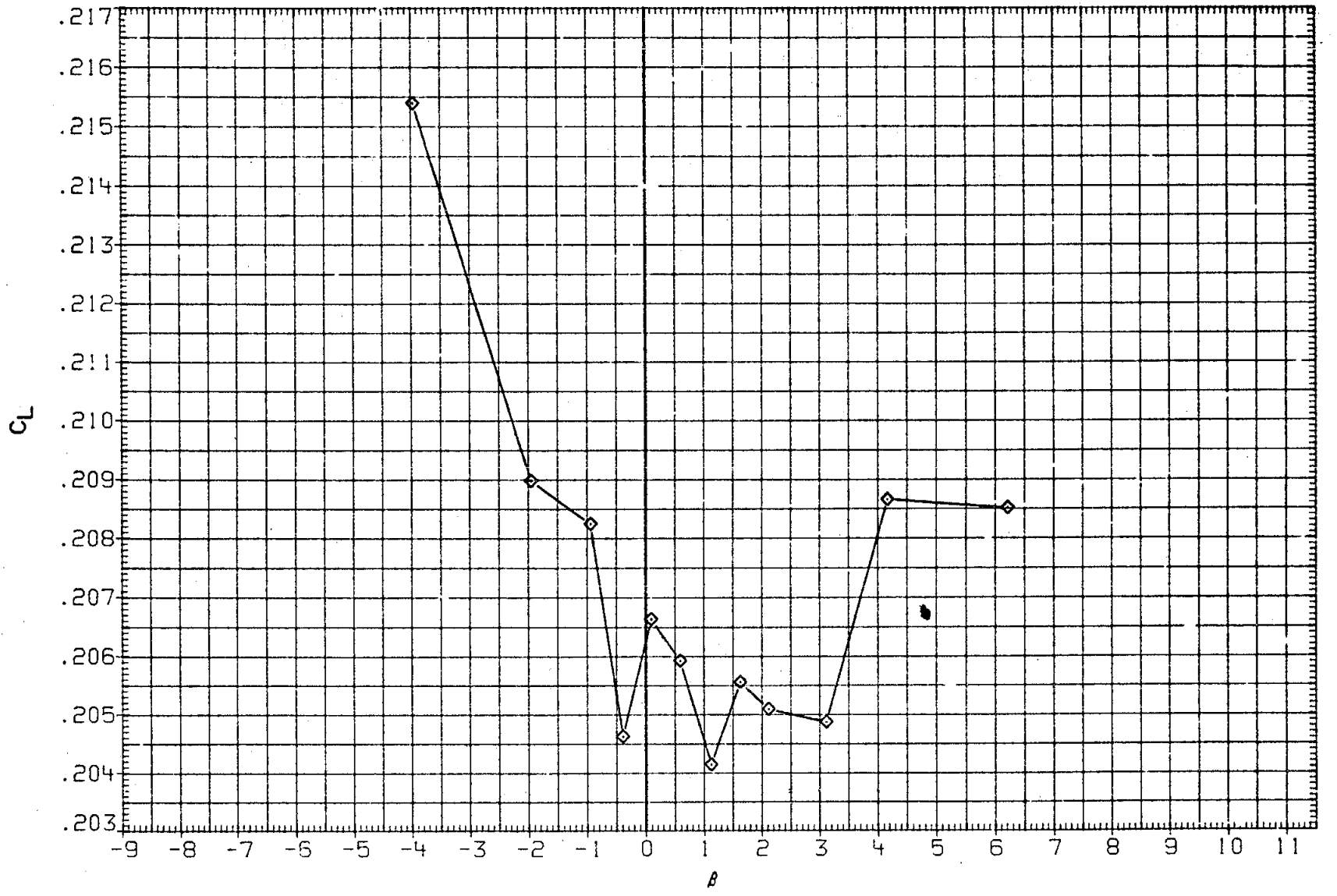

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(B)MACH = .70

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	◻	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.000	.000	

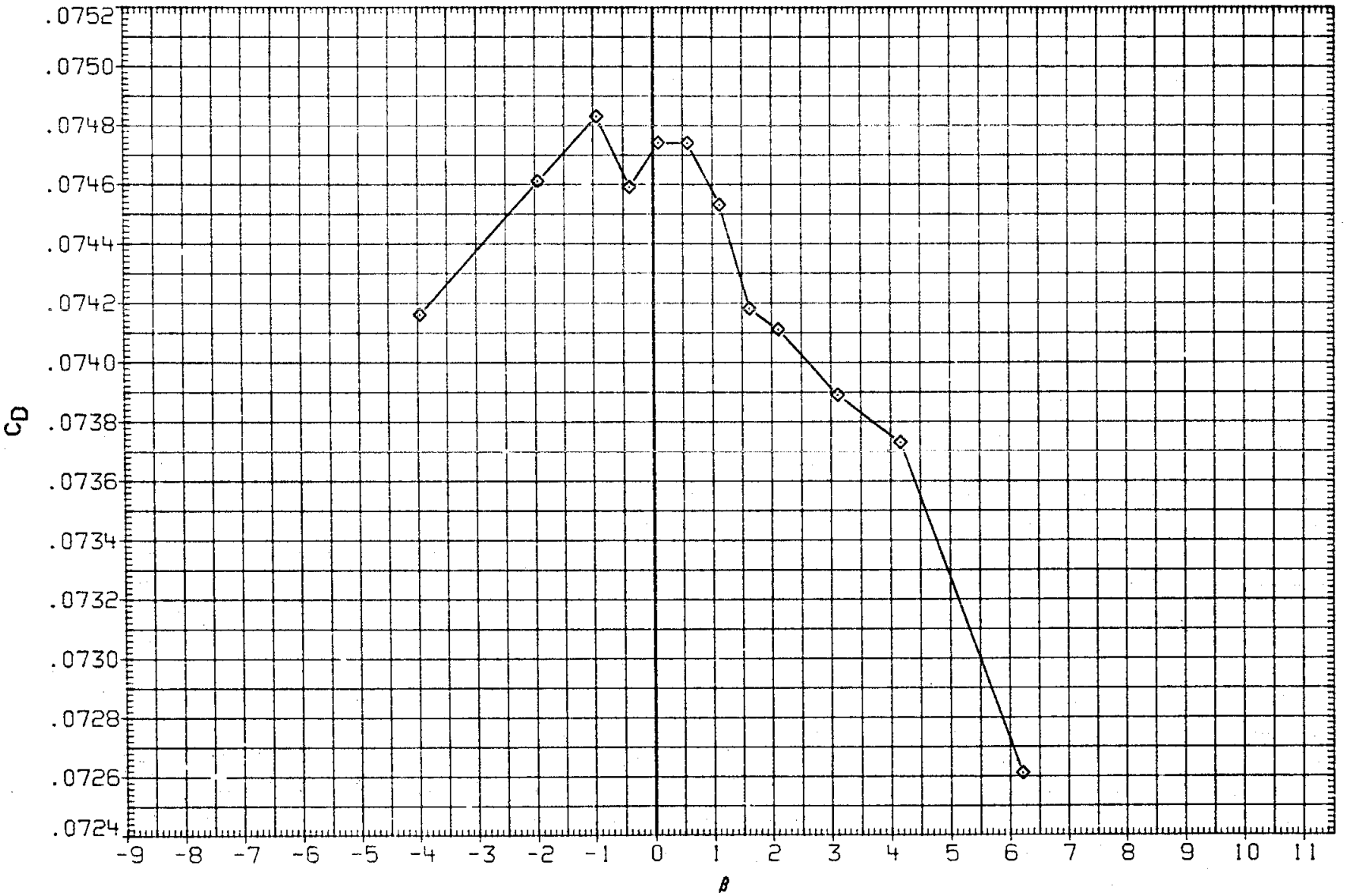

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(B)MACH = .70

DATA SET	SYMBOL	CONFIGURATION
RK0031	○	DATA NOT AVAILABLE
R2F073	□	DATA NOT AVAILABLE
RK0027	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.
R2F018	△	DATA NOT AVAILABLE
RK0032	◺	DATA NOT AVAILABLE
R2F0A1	D	DATA NOT AVAILABLE

ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
5.000	.000	.000	.000	.000	.000	90.000
5.000	.000	.000	.000	.000	.000	
5.000	.000	.000	.000	25.500	-.030	90.000
5.000	.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	55.570	.060	90.000
5.000	.000	.000	.000	55.000	.000	

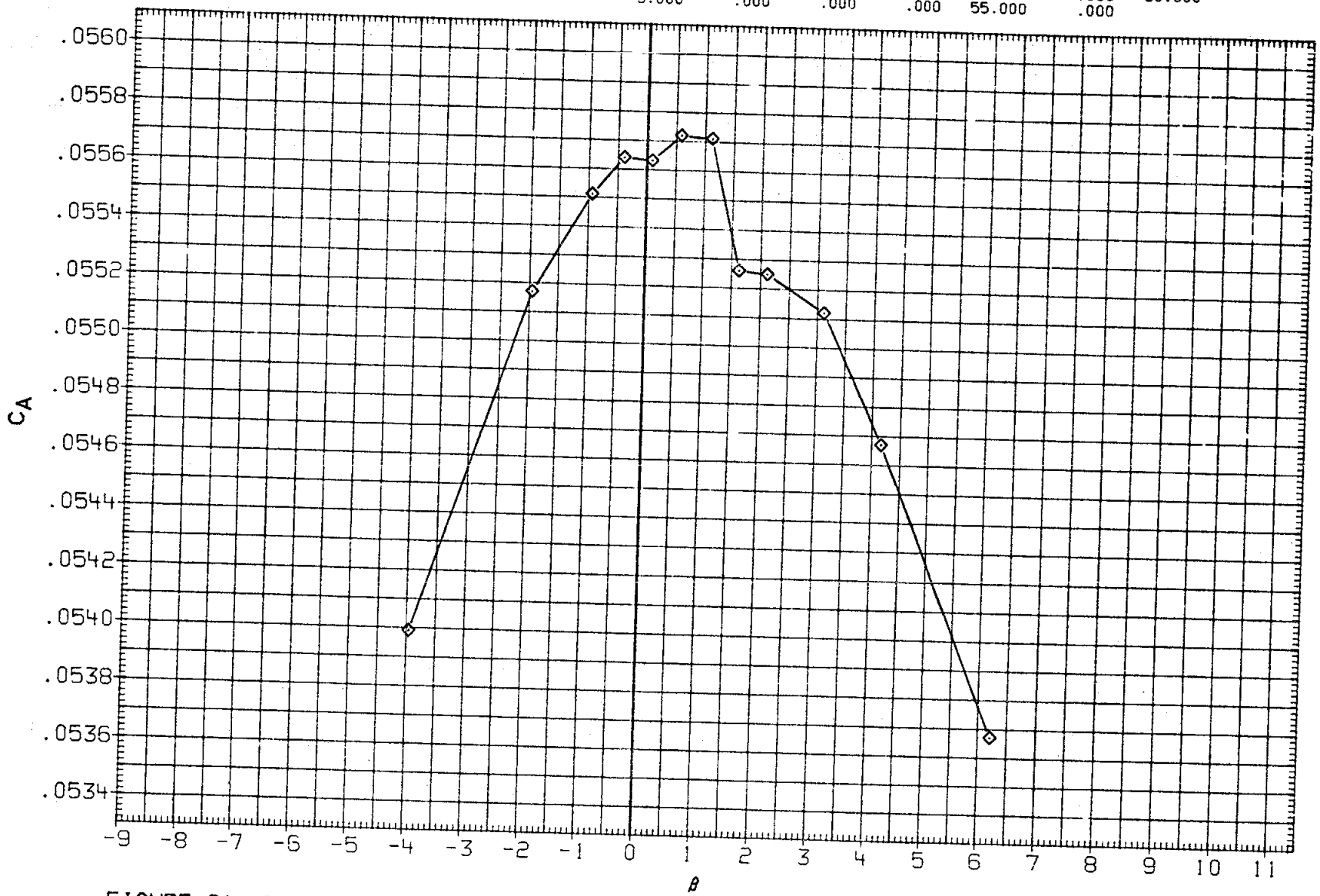

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(B)MACH = .70

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RK0032	◁	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	⌂	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	55.000	.000	

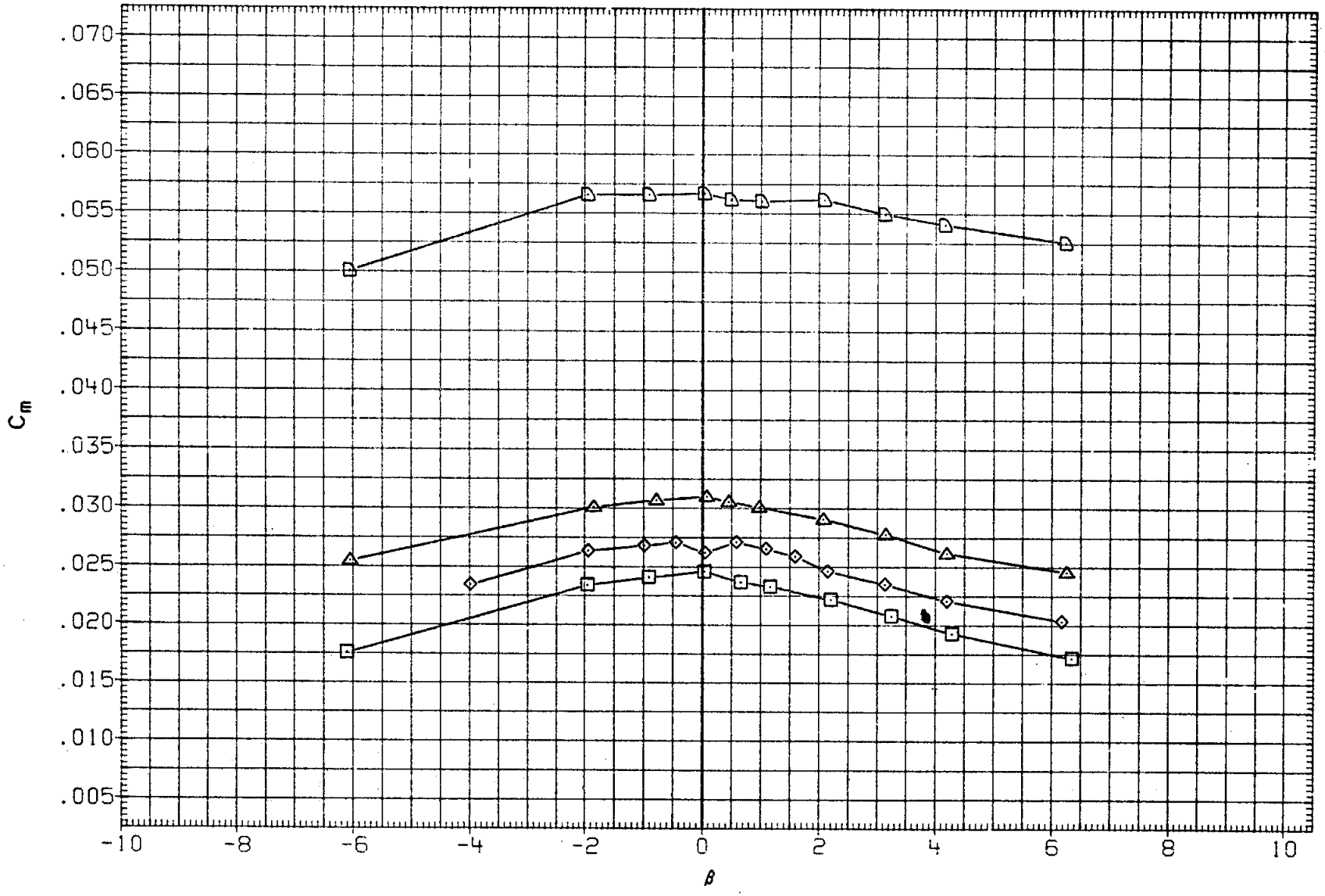

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(C)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	D	AMES 118-1-11 OA145A 01	5.000	.000	000	.000	55.000	.000	

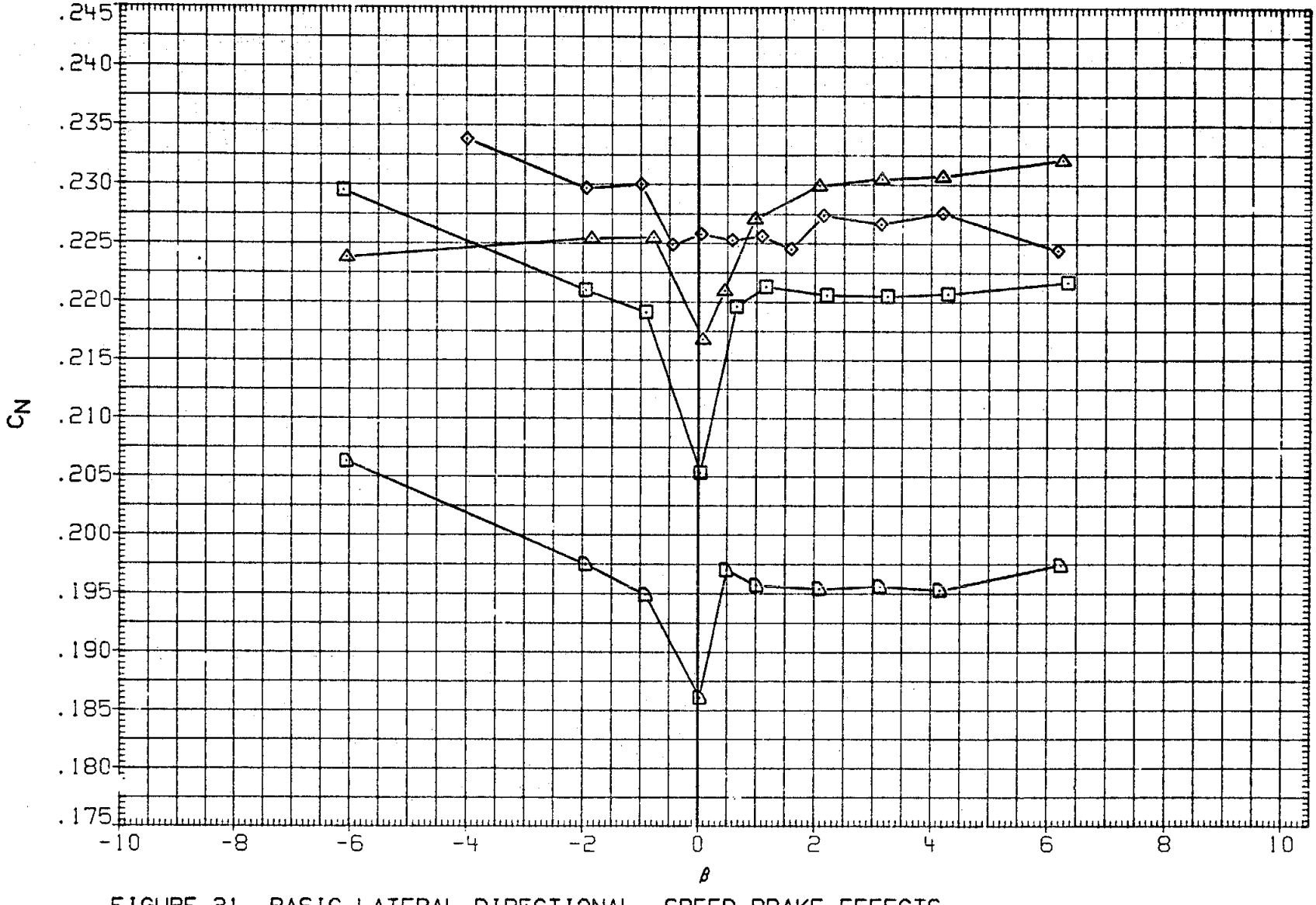

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(C)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	D	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	55.000	.000	

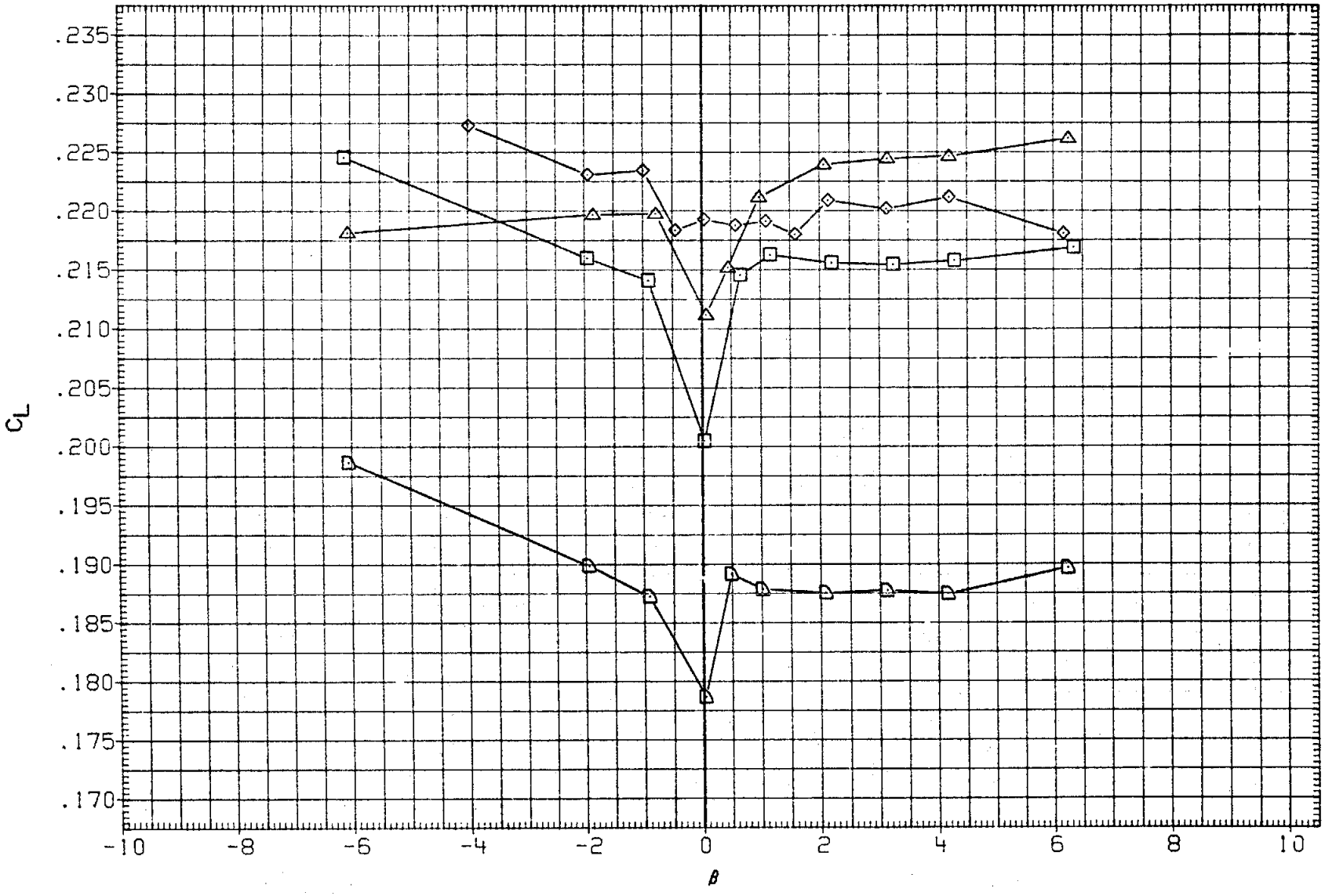

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(C)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	⬠	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	55.000	.000	

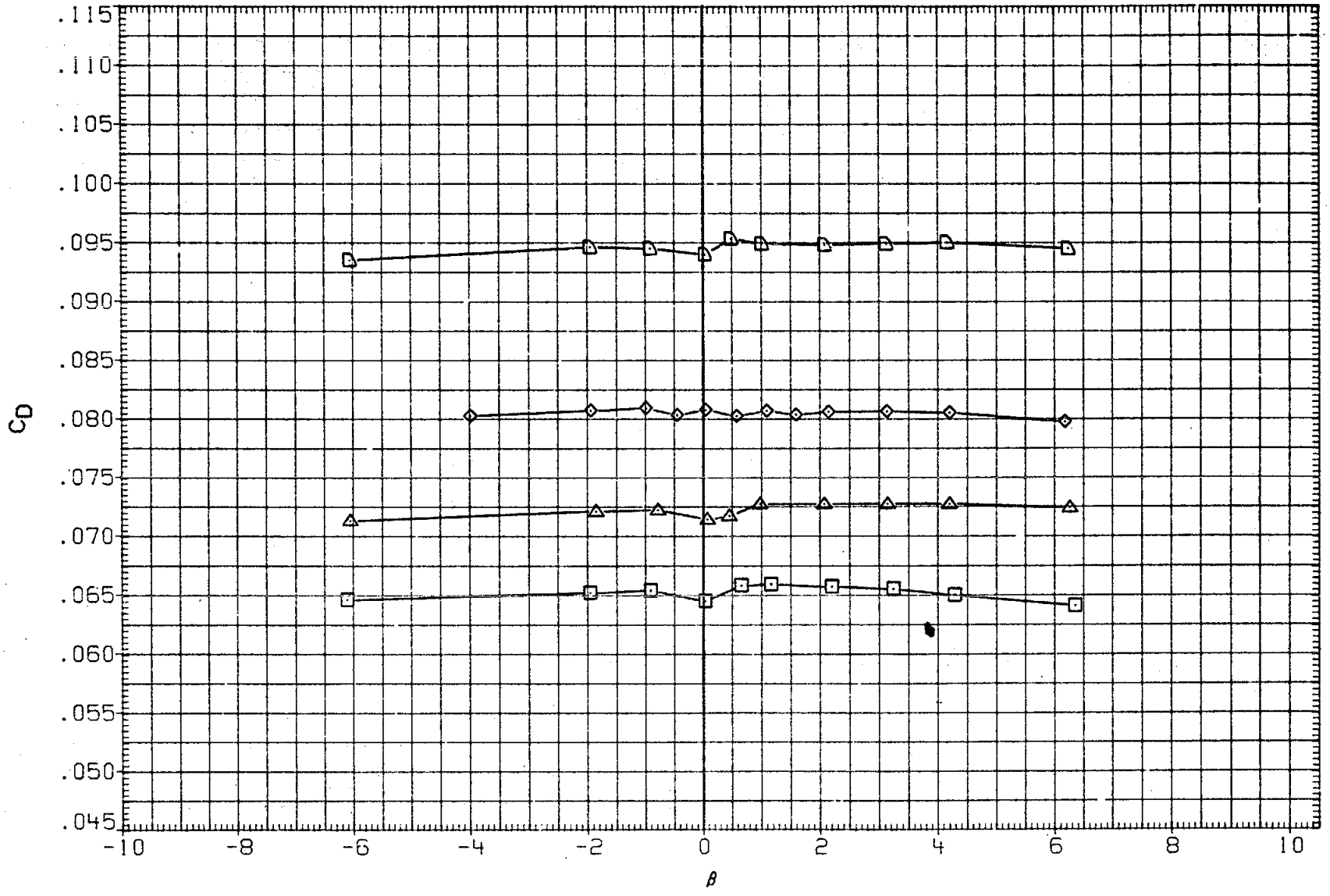

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(C)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325:0A270B1 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	⬠	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	55.000	.000	

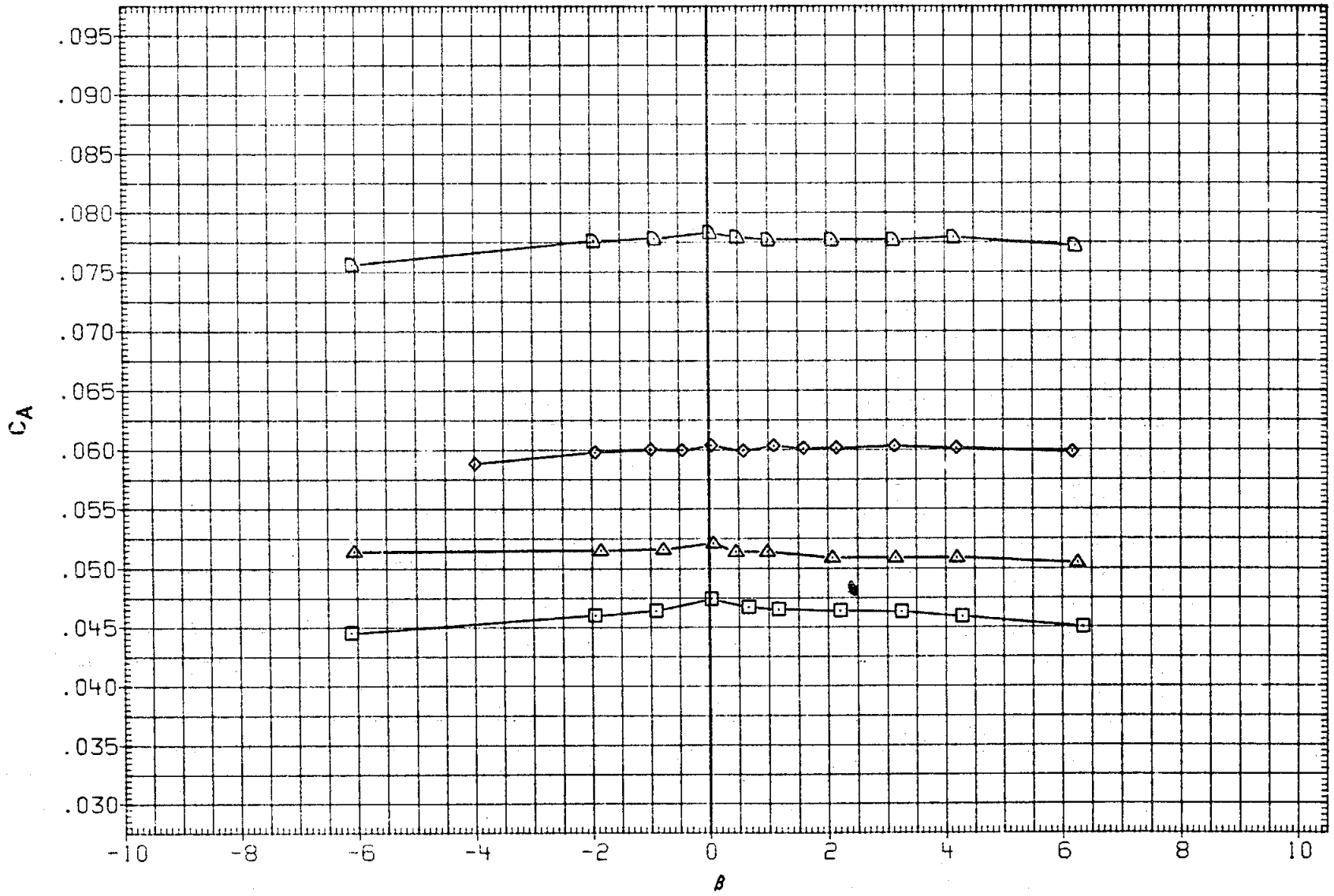

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(C)MACH = .80

DATA SET	SYMBOL	CONFIGURATION
RK0031	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F073	□	AMES 118-1-11 OA145A 01
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F018	△	AMES 118-1-11 OA145A 01
RK0032	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F0A1	D	AMES 118-1-11 OA145A 01

ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
5.000	.000	.000	.000	.000	.000	90.000
5.000	.000	.000	.000	.000	.000	
5.000	.000	.000	.000	25.500	-.030	90.000
5.000	.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	55.570	.060	90.000
5.000	.000	.000	.000	55.000	.000	

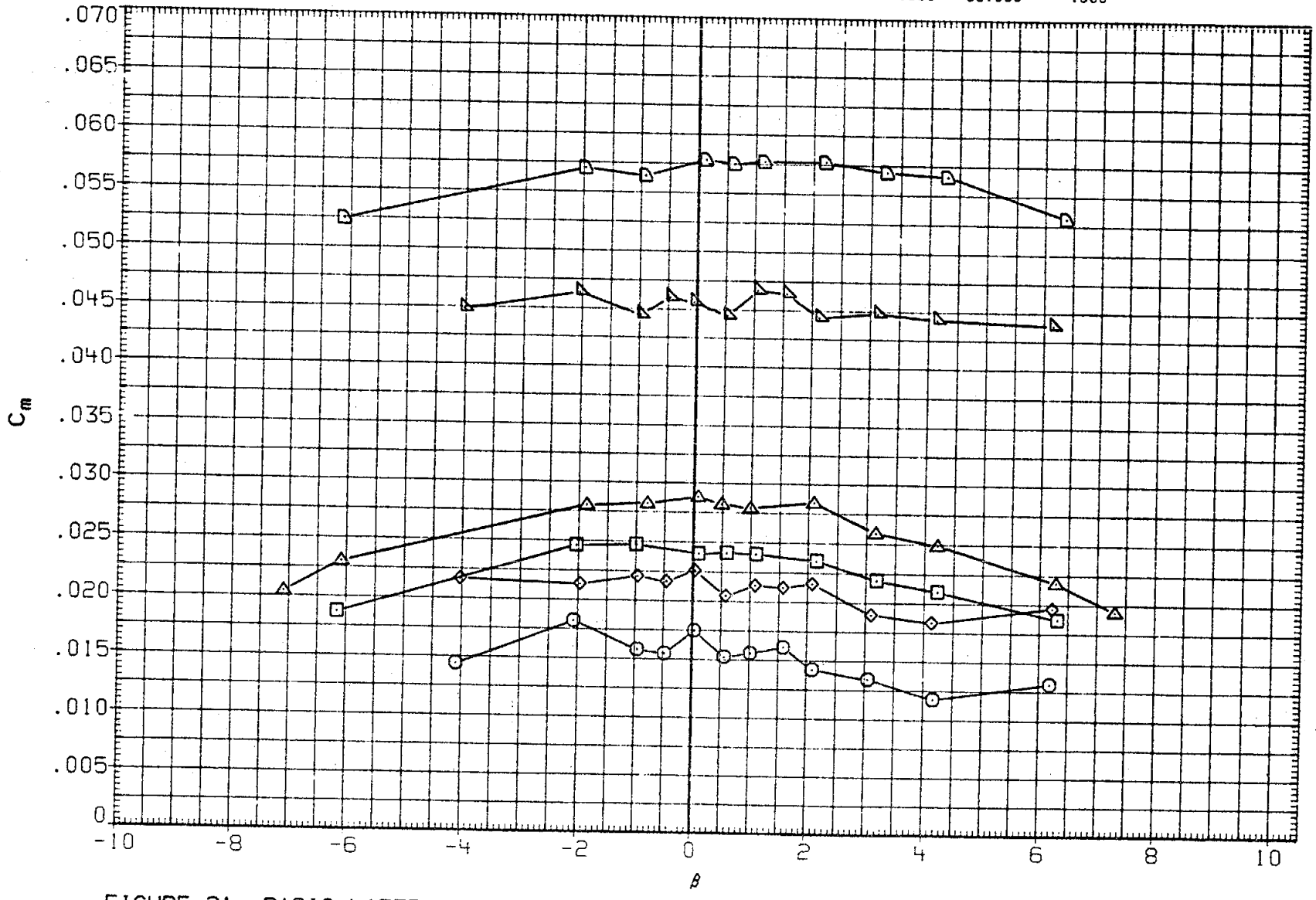

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(D)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	◻	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	55.000	.000	

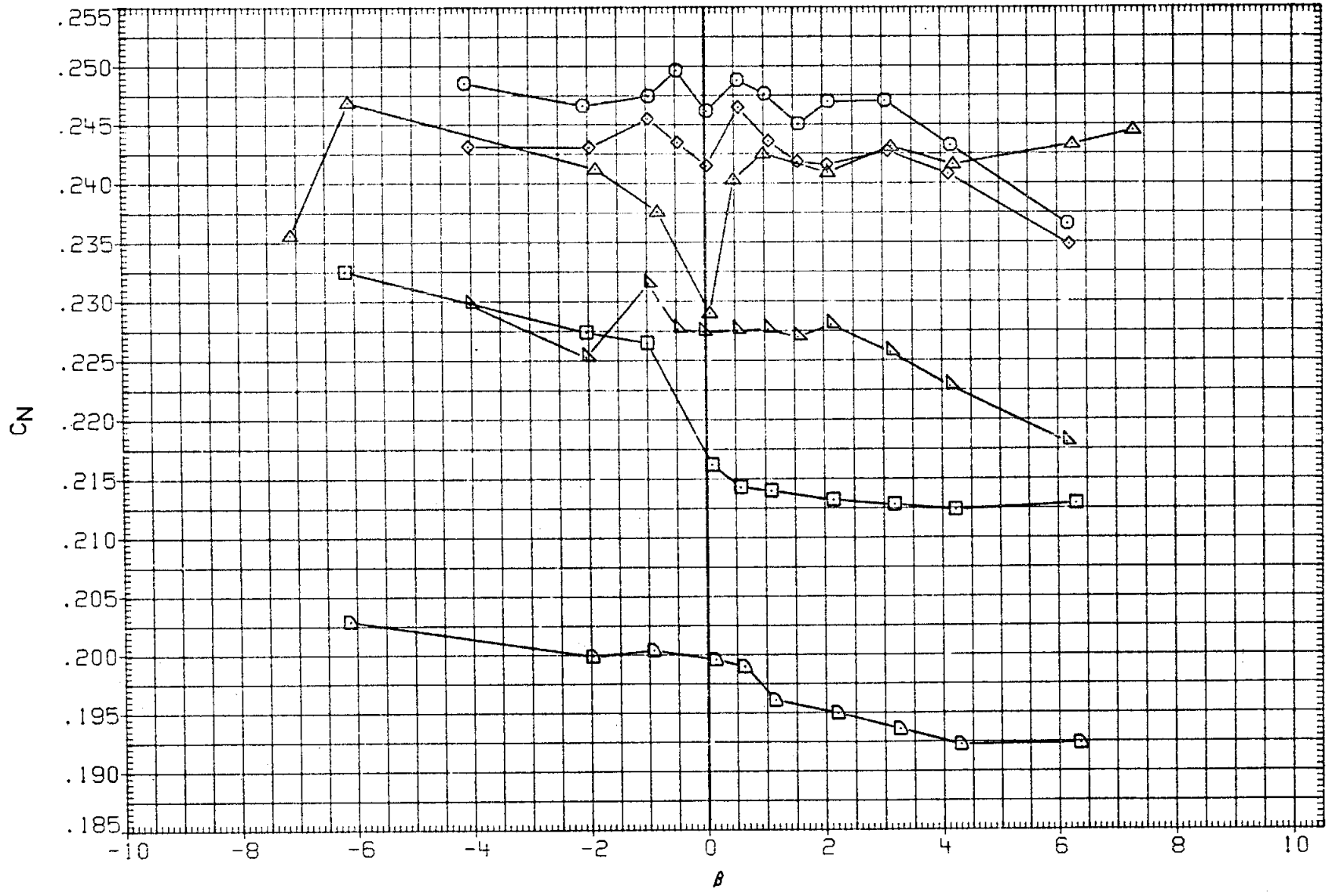

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(D)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	◻	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	55.000	.000	

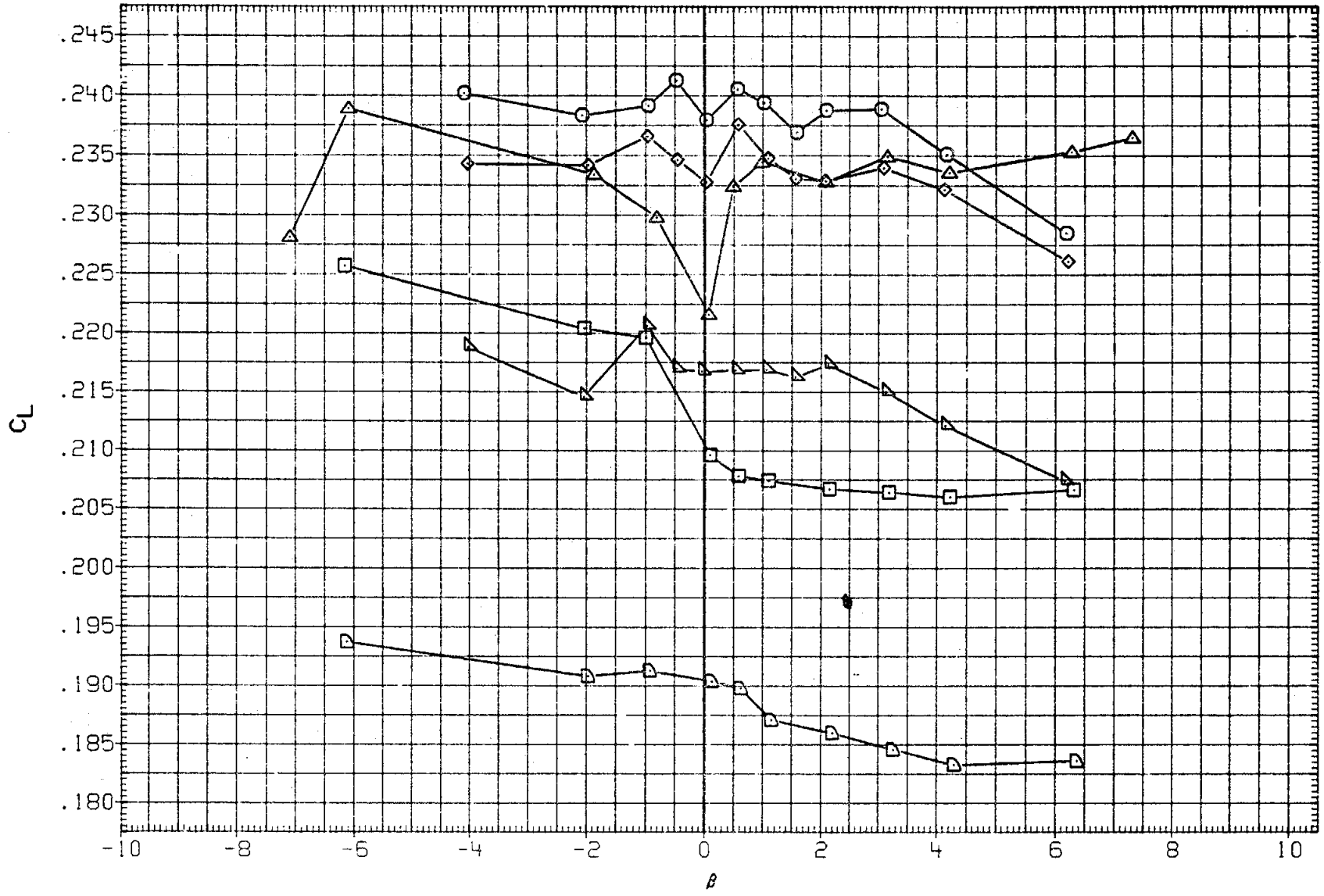

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(D)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	AMES 118-1-11 0A145A 01	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	AMES 118-1-11 0A145A 01	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	LARC 16FT TWT 325(0A270B) 105-0 ORB.	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	⬠	AMES 118-1-11 0A145A 01	5.000	.000	.000	.000	55.000	.000	

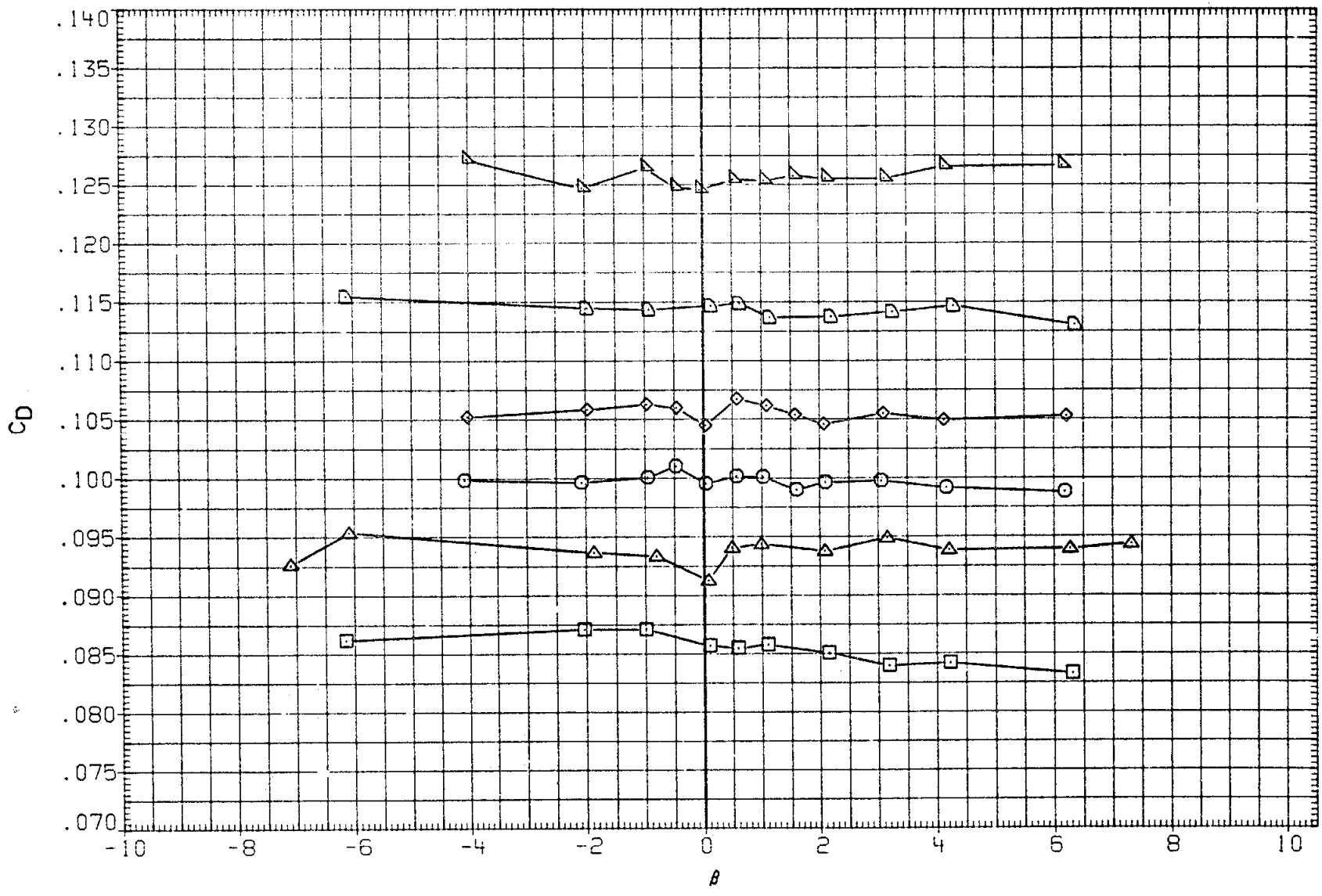

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(D)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	D	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	55.000	.000	

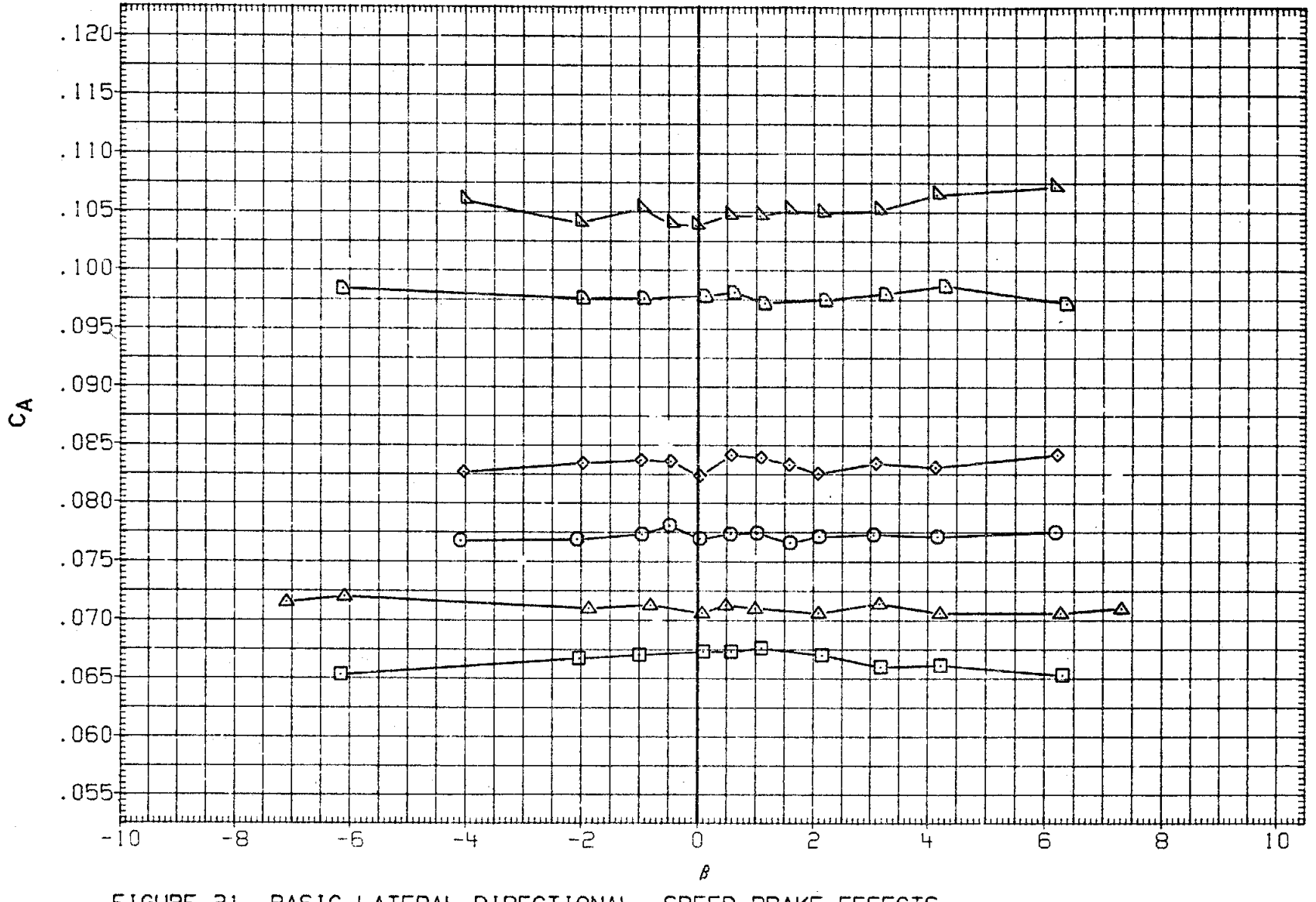

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(D)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	◸	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.000	.000	

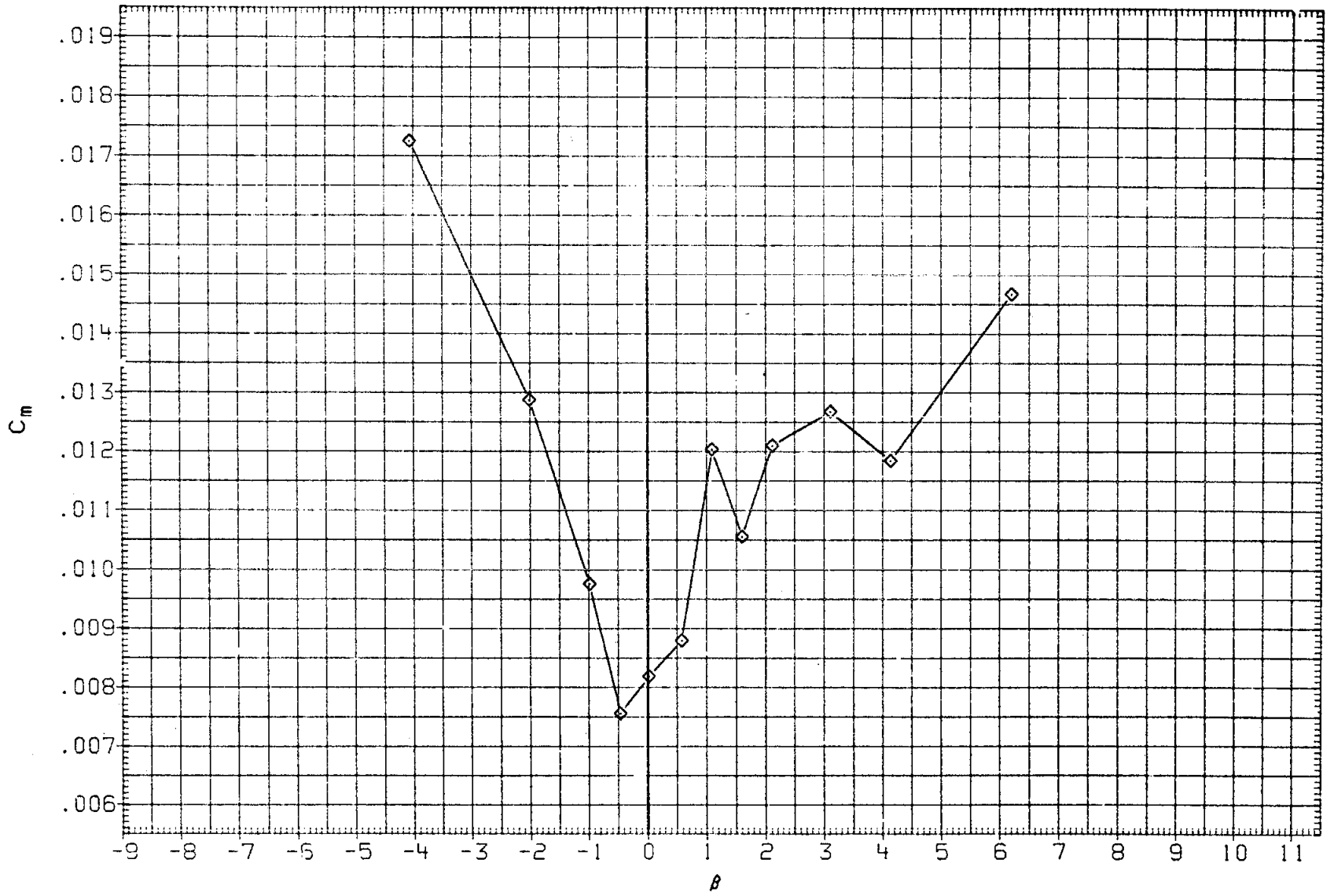

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(E)MACH = .92

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	D	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.000	.000	

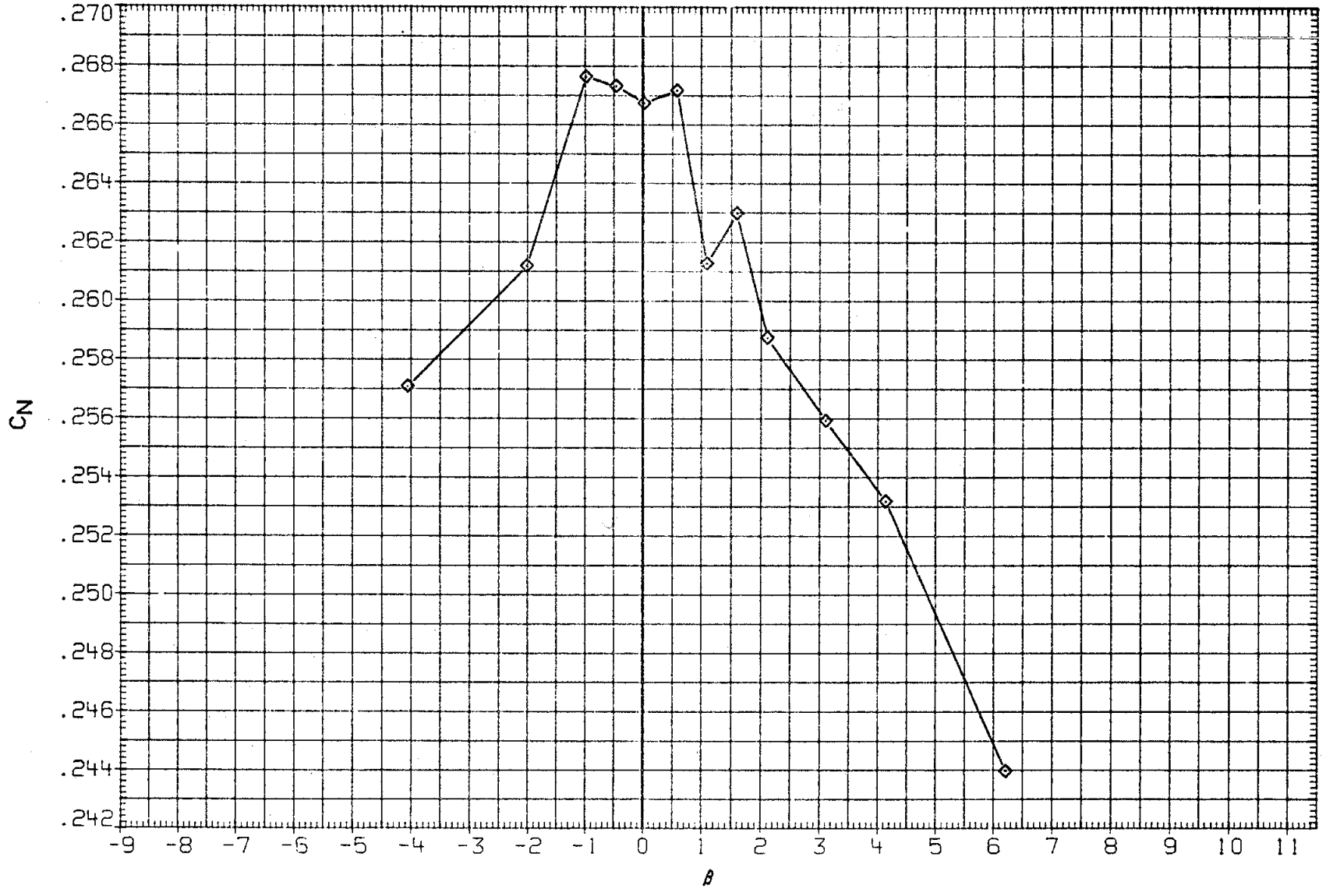

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(E)MACH = .92

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	⬠	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.000	.000	

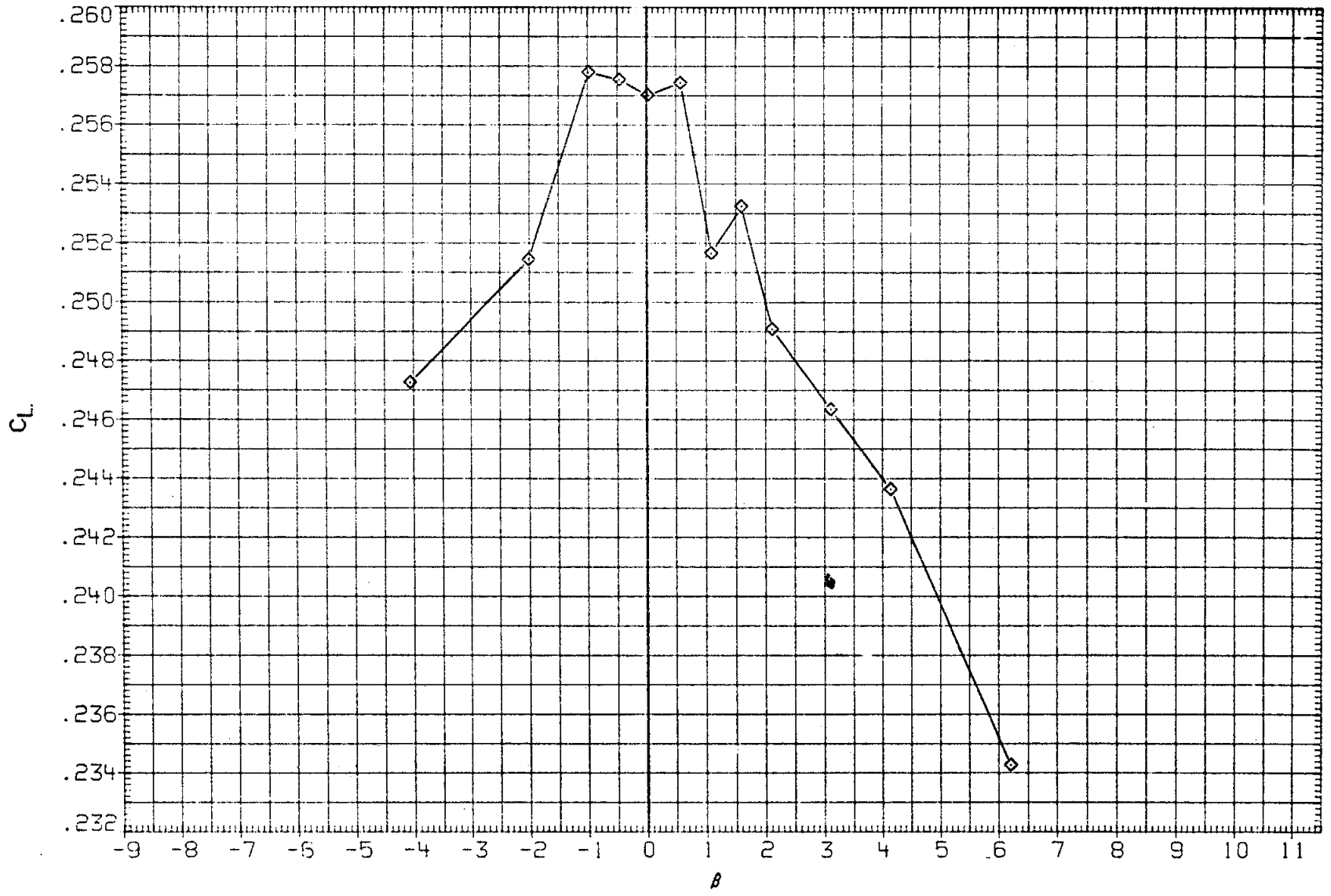

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(E)MACH = .92

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	◻	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.000	.000	

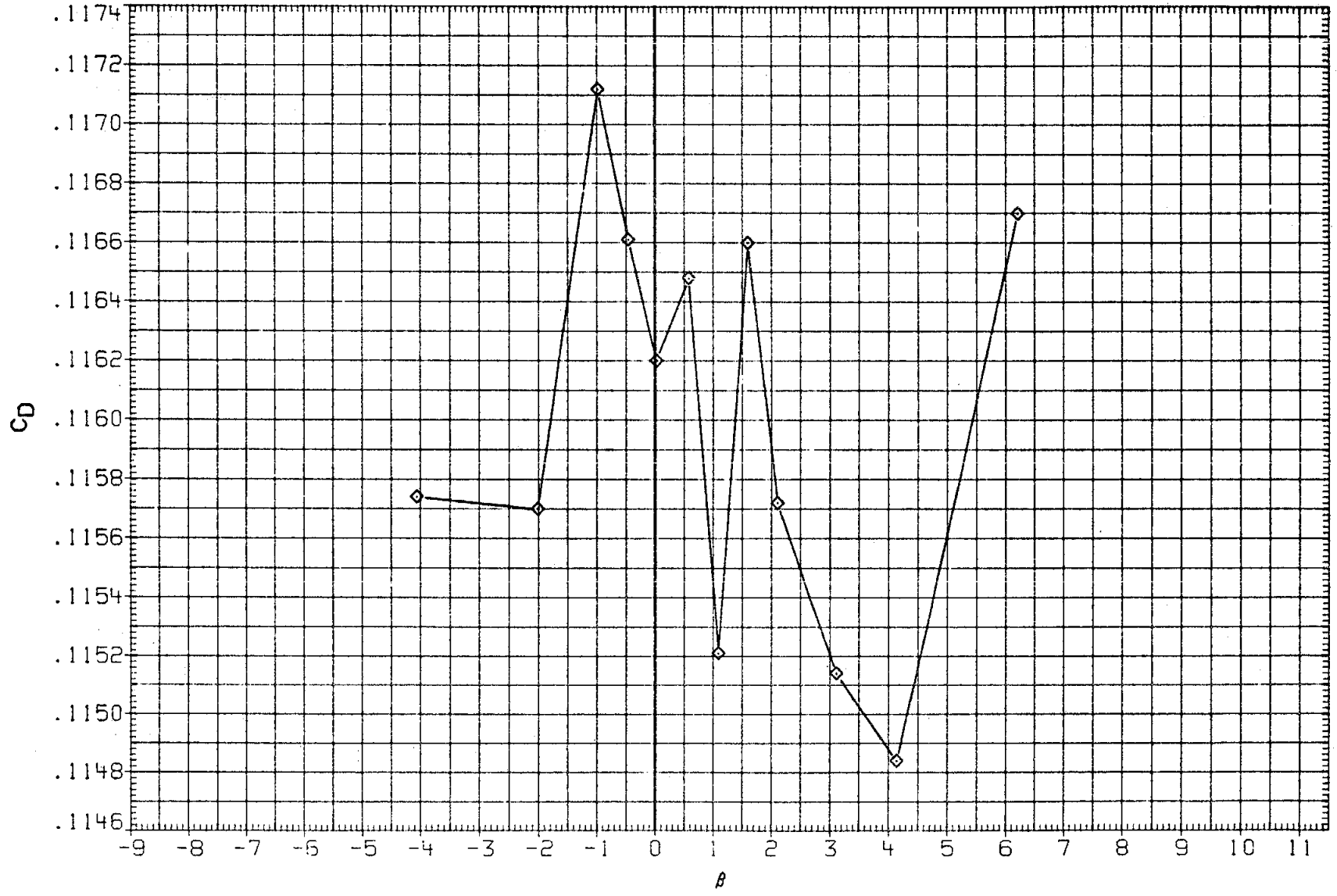

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(E)MACH = .92

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	◻	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.000	.000	

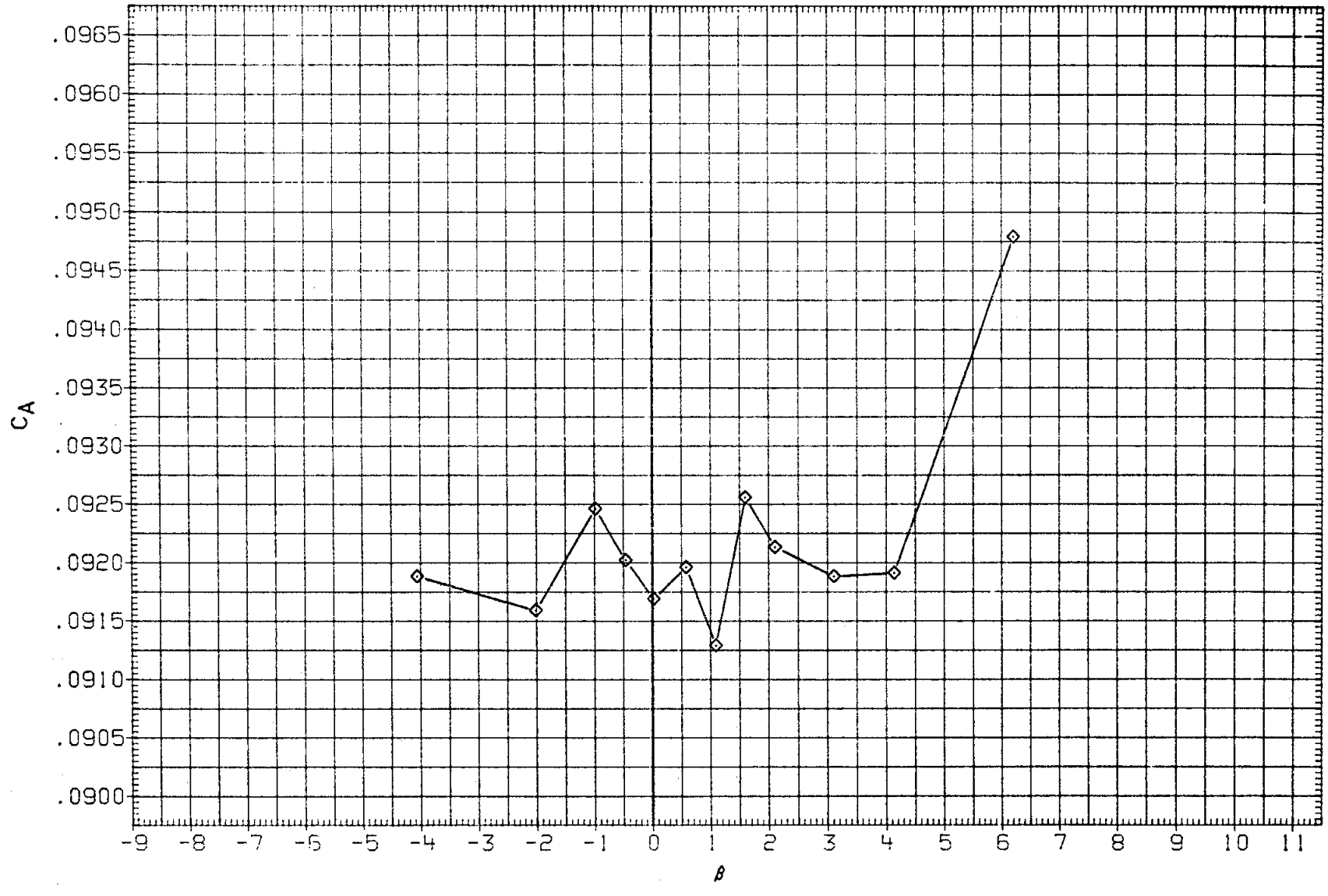

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(E)MACH = .92

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	◻	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	55.000	.000	

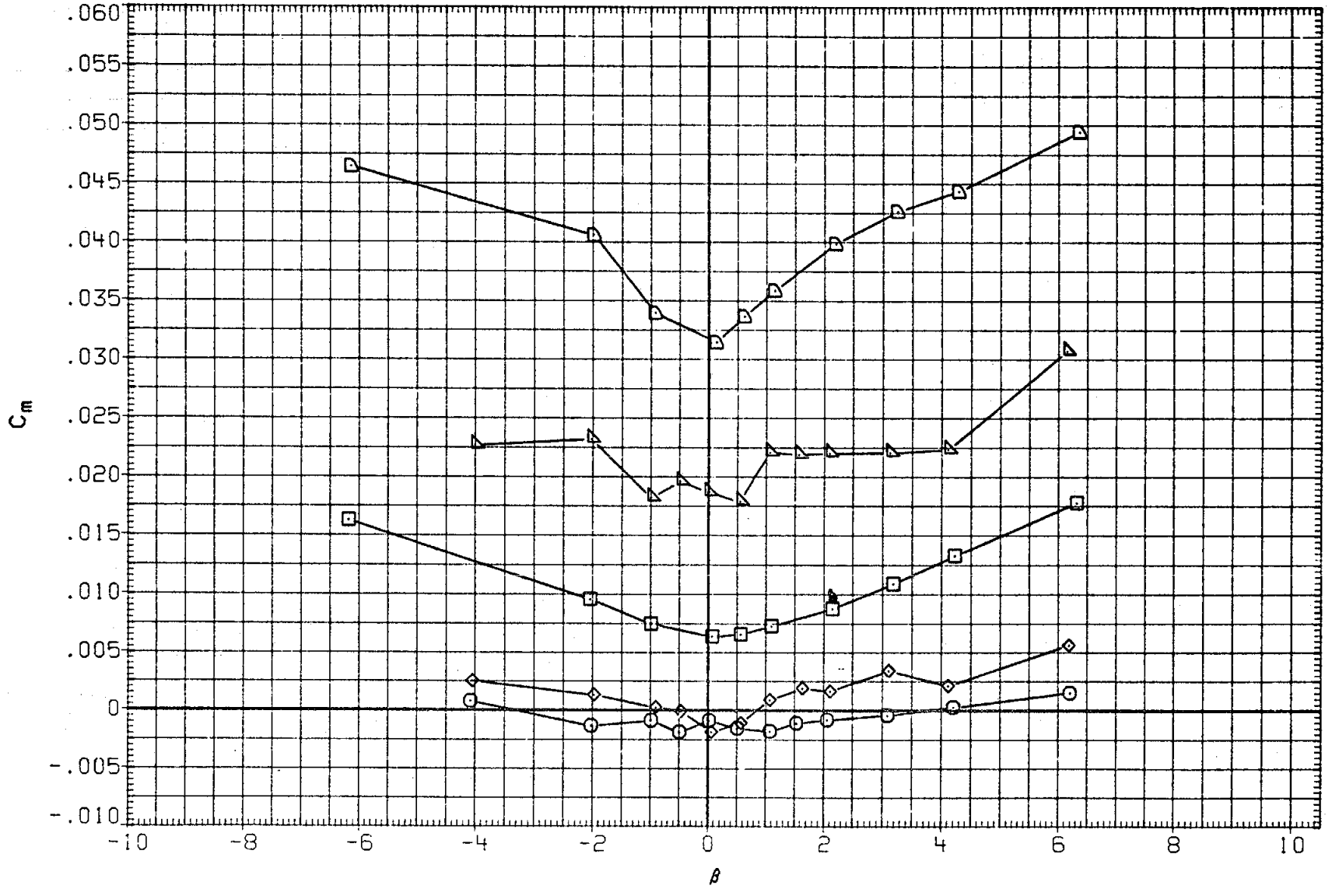

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(F)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	◻	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	55.000	.000	

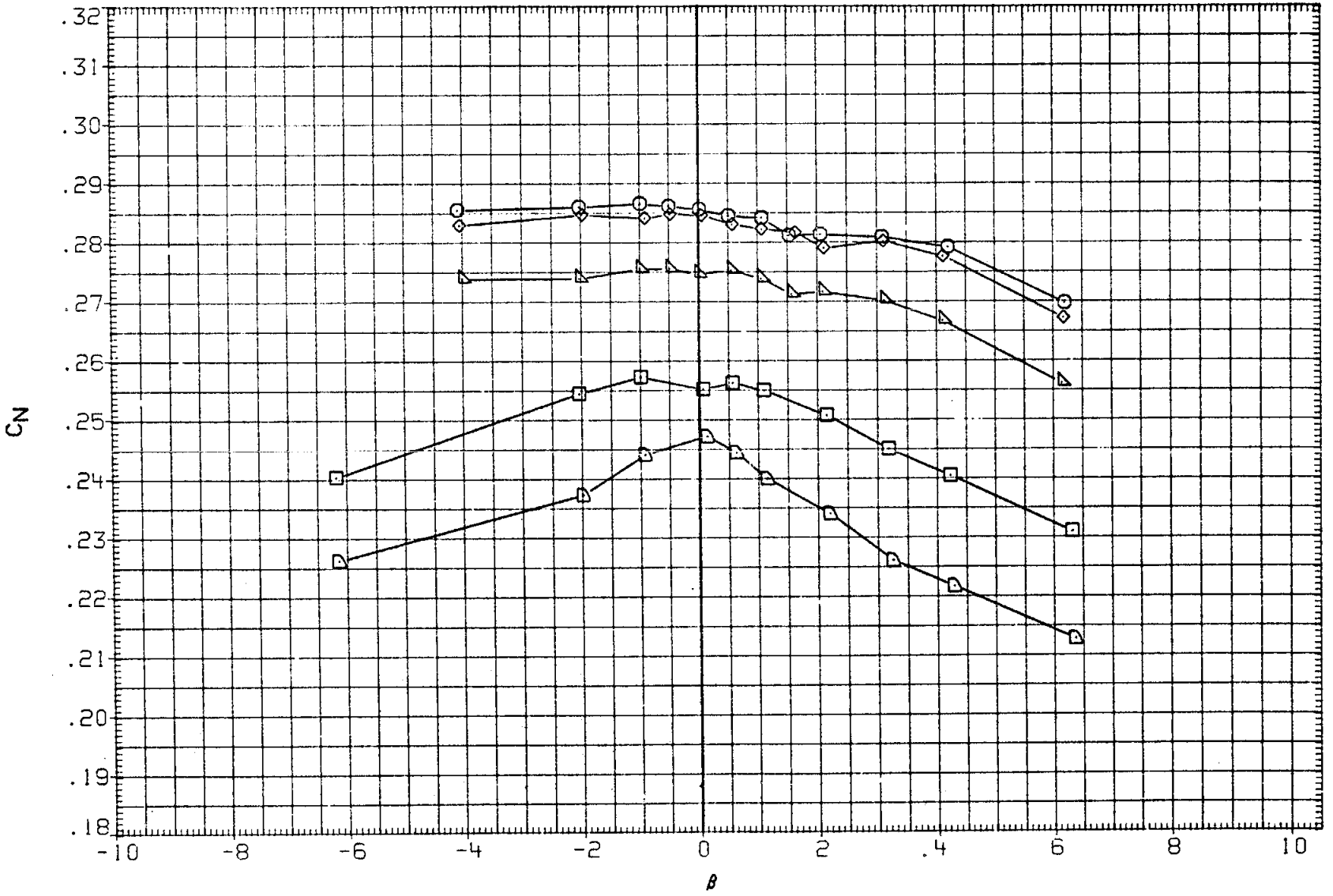

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(F)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	D	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	55.000	.000	

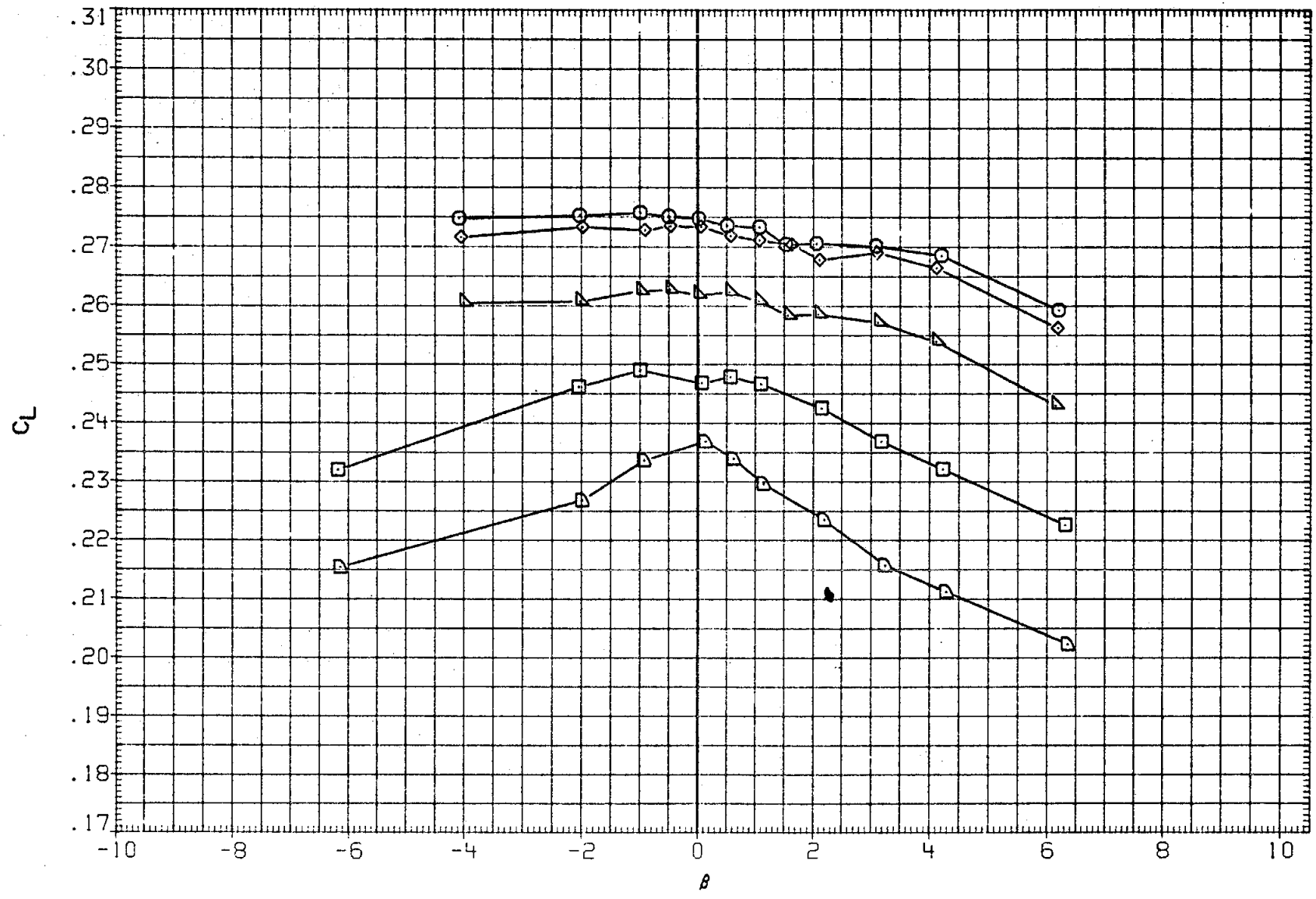

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(F)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	AMES 118-1-11 0A145A 01	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	LARC 16FT TWT 325(0A270B) 105-0 ORB.	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	◻	AMES 118-1-11 0A145A 01	5.000	.000	.000	.000	55.000	.000	

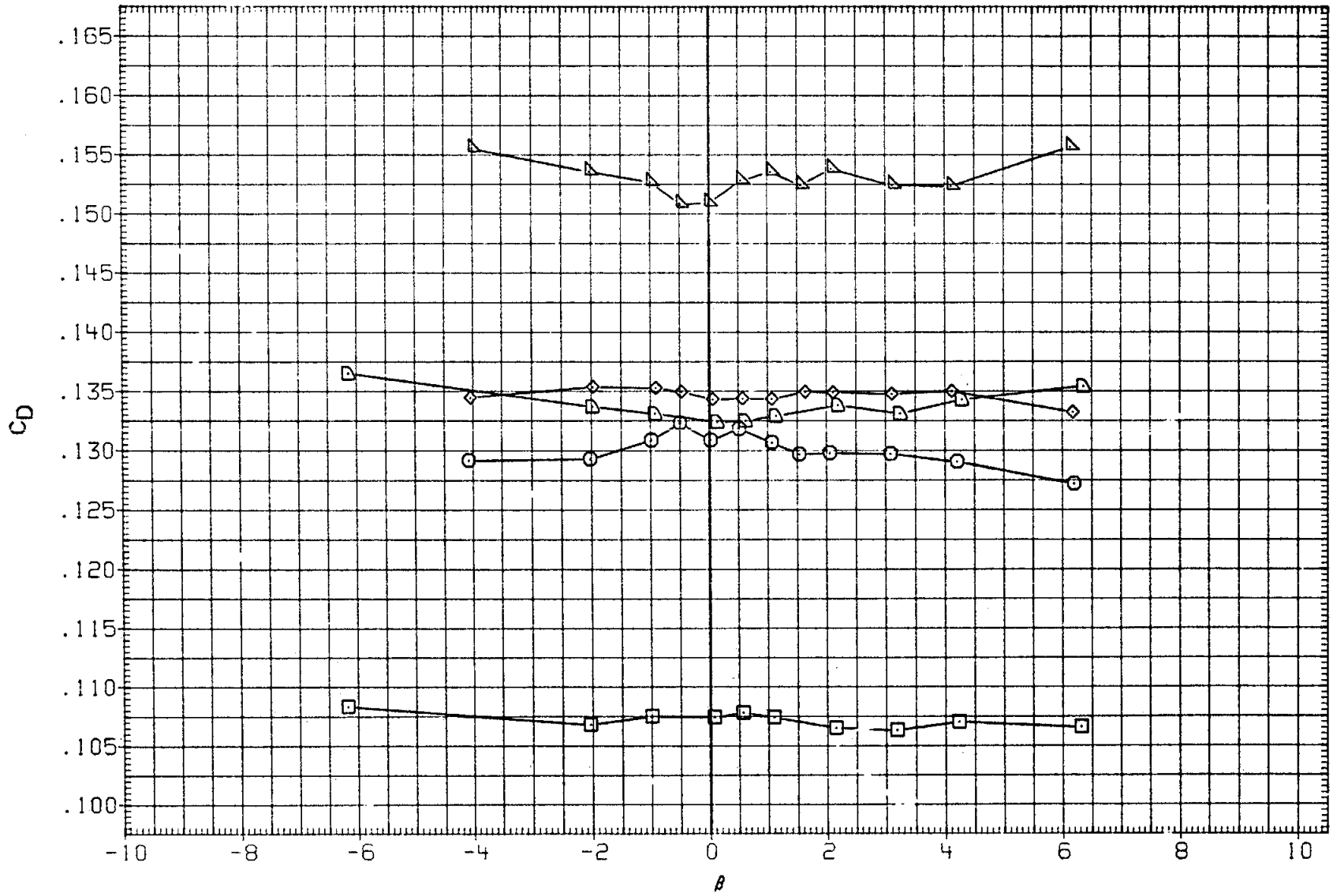

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(F)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	D	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	55.000	.000	

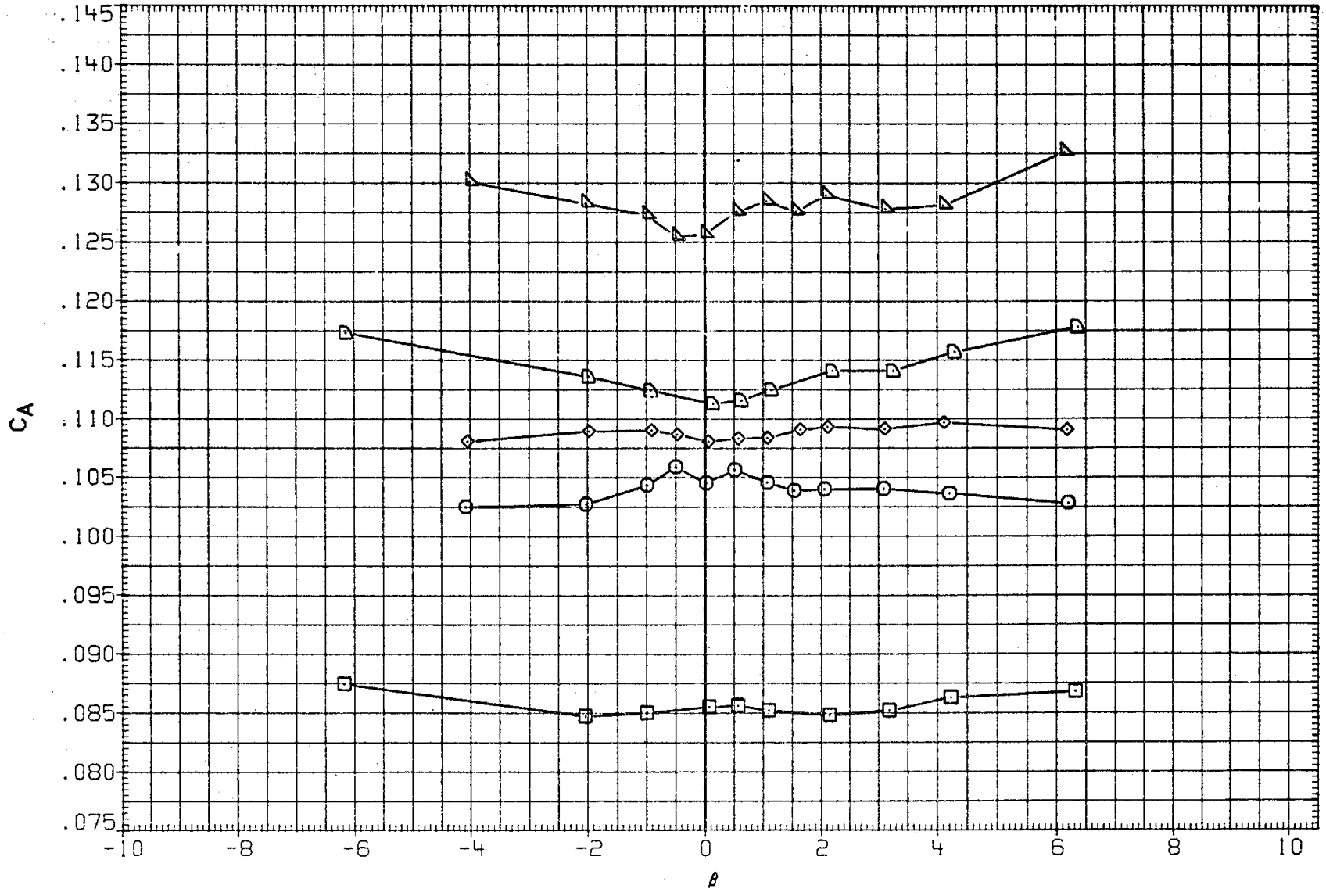

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(F)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	▱	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.000	.000	

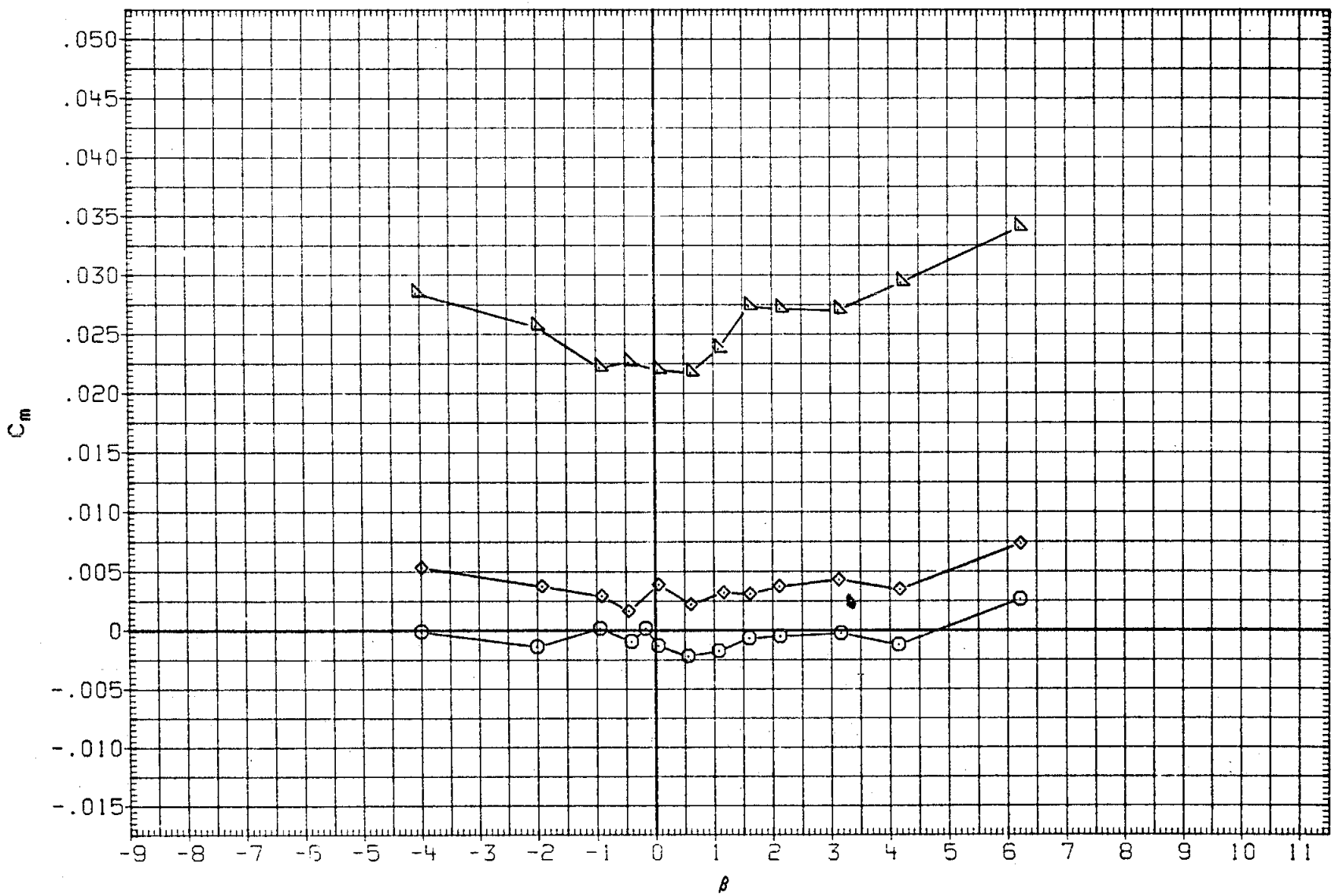

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(G)MACH = .98

DATA SET	SYMBOL	CONFIGURATION
RK0031	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.
R2F073	□	DATA NOT AVAILABLE
RK0027	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.
R2F018	△	DATA NOT AVAILABLE
RK0032	◺	LARC 16FT TWT 325(0A270B) 105-0 ORB.
R2F0A1	D	DATA NOT AVAILABLE

ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
5.000	.000	.000	.000	.000	.000	90.000
5.000	.000	.000	.000	.000	.000	
5.000	.000	.000	.000	25.500	-.030	90.000
5.000	.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	55.570	.060	90.000
5.000	.000	.000	.000	55.000	.000	

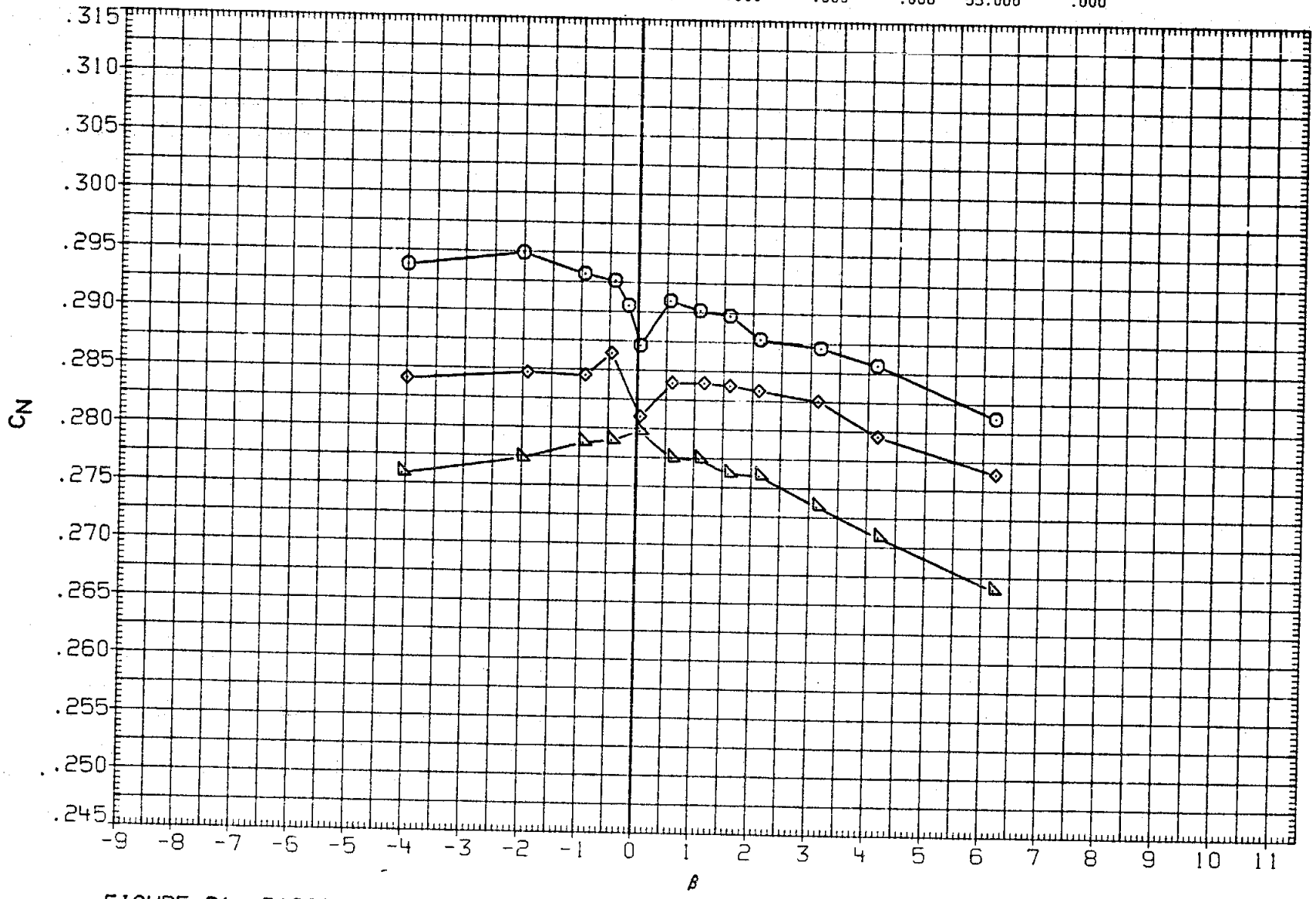

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(G)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	D	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.000	.000	

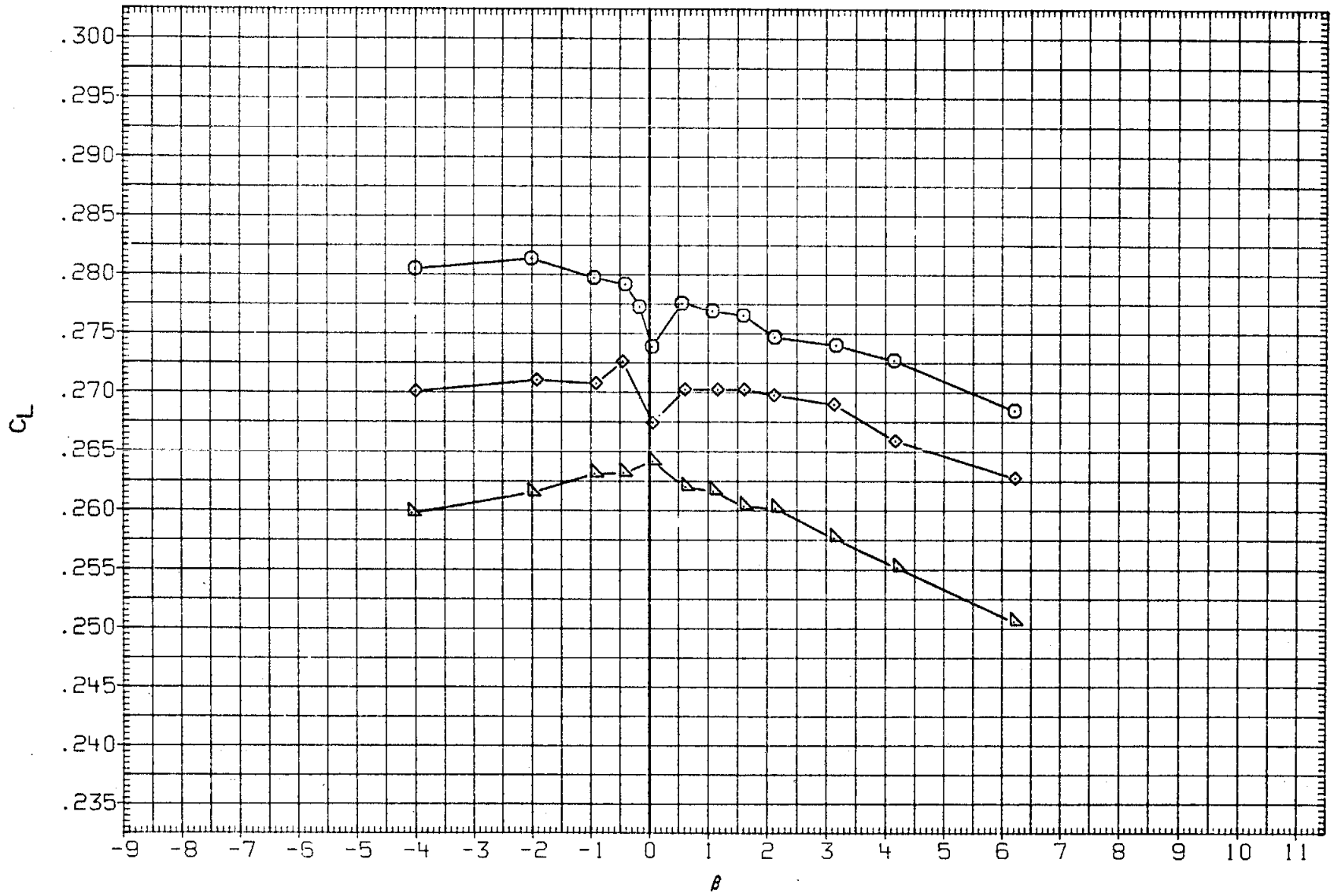

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(G)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	◻	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.000	.000	

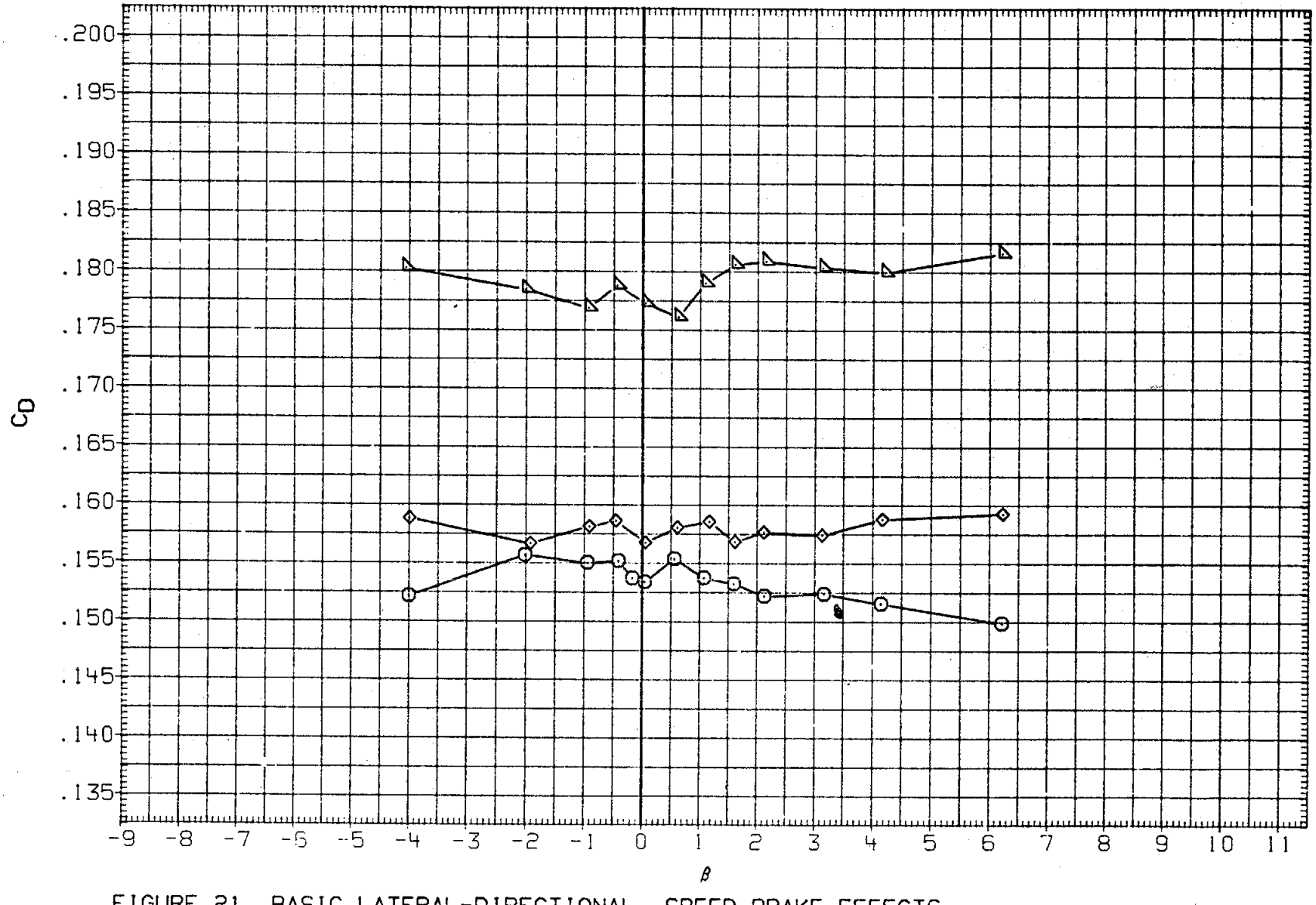

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(G)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	LARC 16FT TWT 325(0A270B) 105-0 ORB.	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	D	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.000	.000	

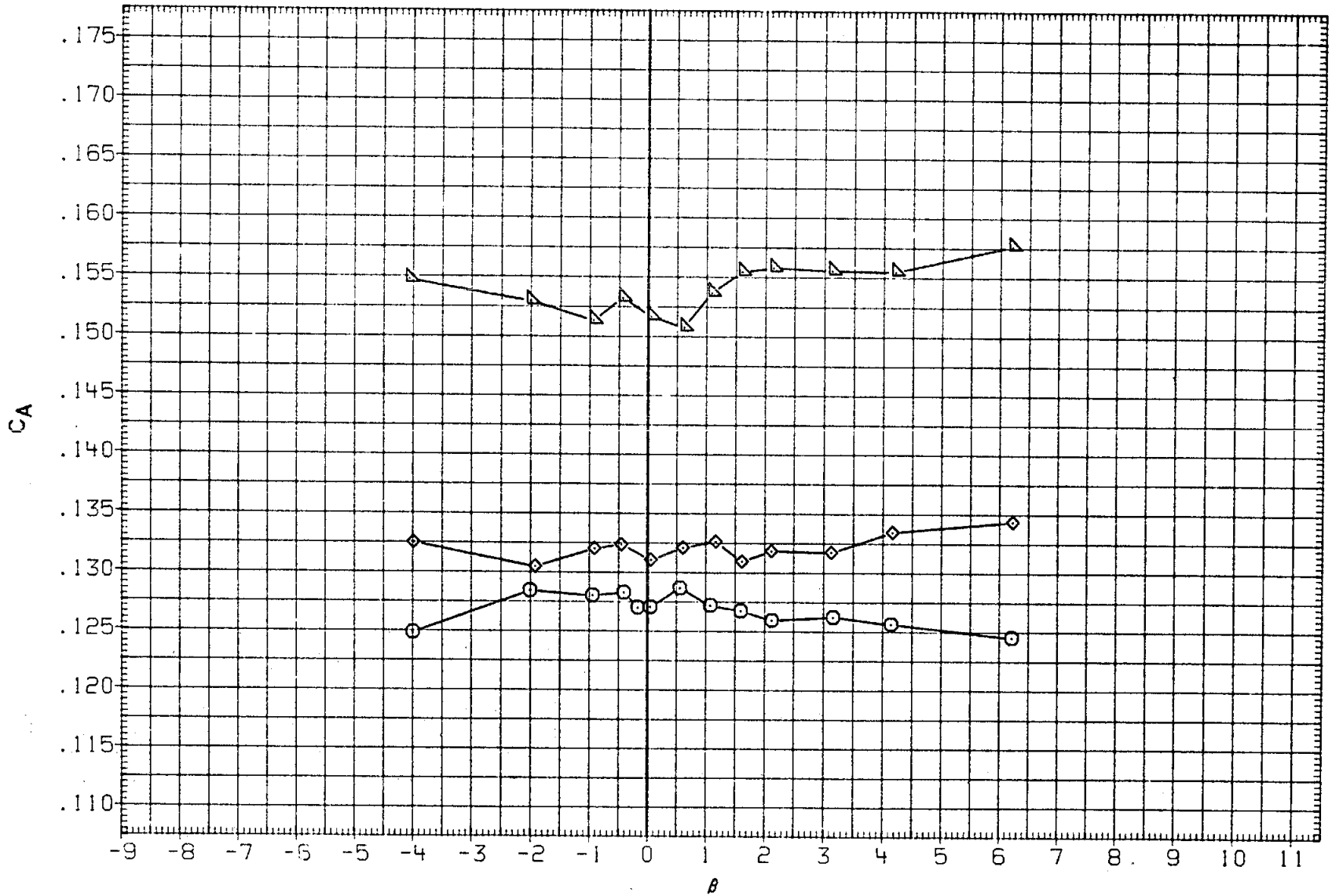

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(G)MACH = .98

DATA SET	SYMBOL	CONFIGURATION
RK0031	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F073	□	DATA NOT AVAILABLE
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F018	△	DATA NOT AVAILABLE
RK0032	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F0A1	◻	DATA NOT AVAILABLE

ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
5.000	.000	.000	.000	.000	.000	90.000
5.000	.000	.000	.000	.000	.000	
5.000	.000	.000	.000	25.500	-.030	90.000
5.000	.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	55.570	.060	90.000
5.000	.000	.000	.000	55.000	.000	

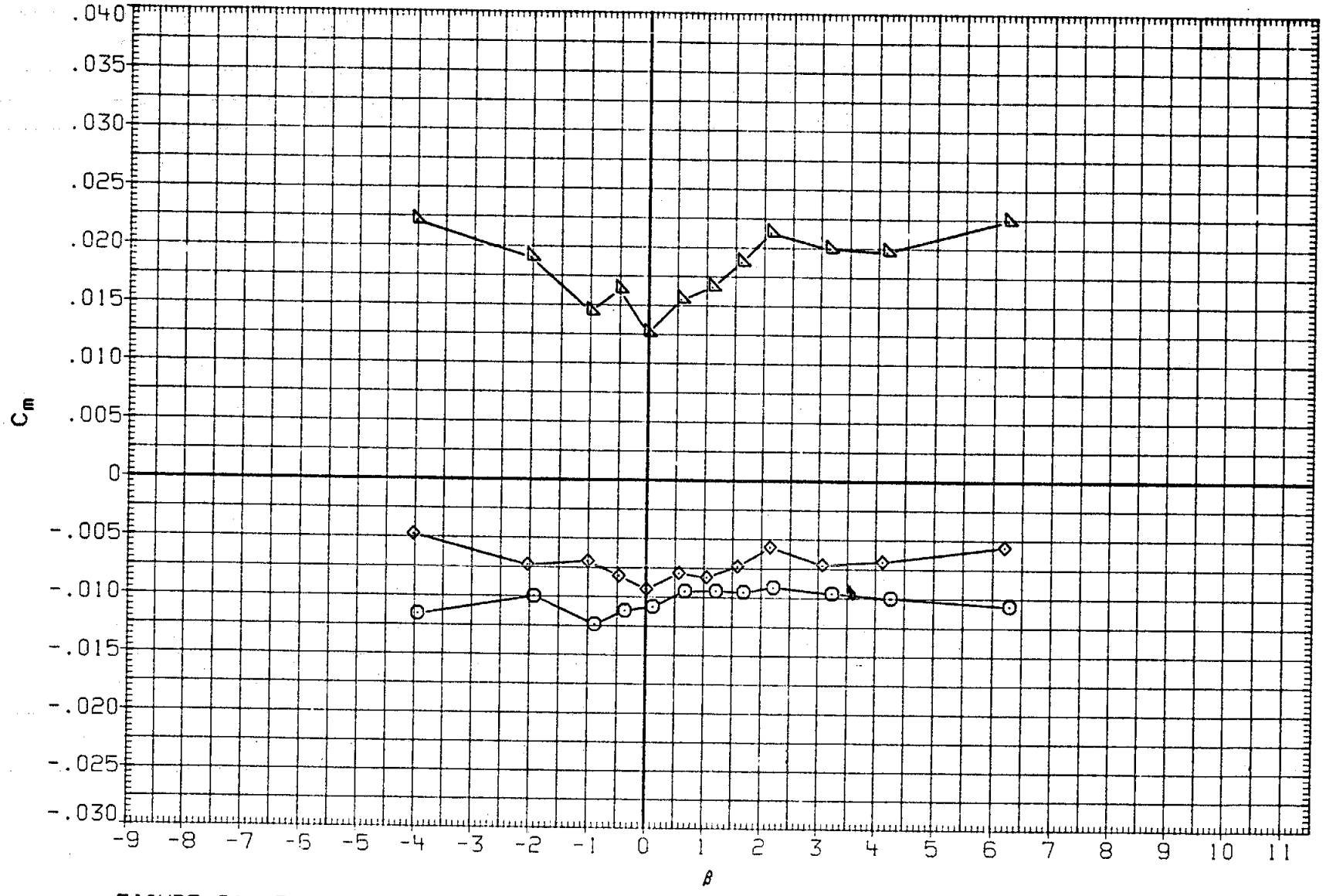

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(H)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	◺	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.000	.000	

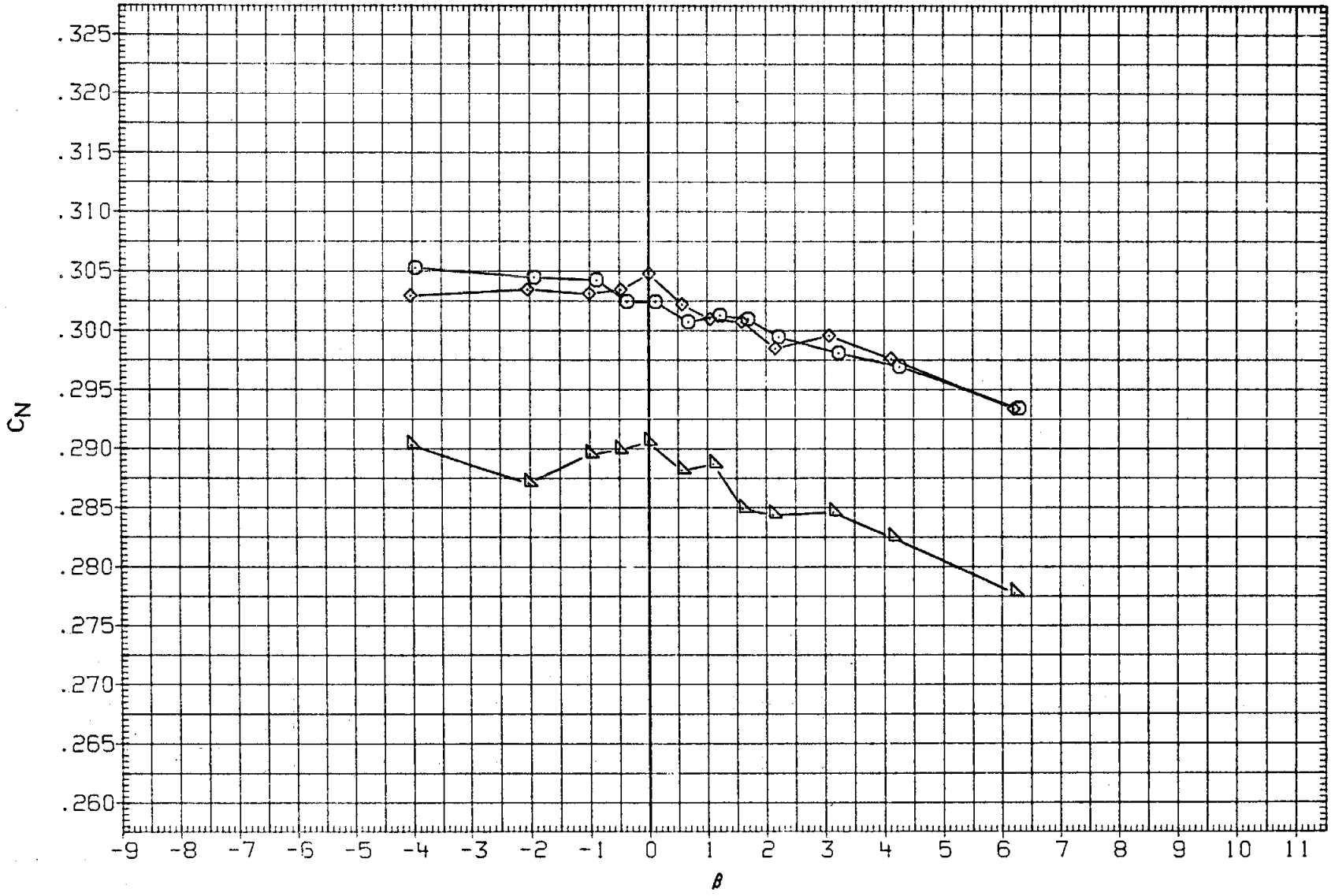

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(H)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION
RK0031	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.
R2F073	□	DATA NOT AVAILABLE
RK0027	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.
R2F018	△	DATA NOT AVAILABLE
RK0032	◺	LARC 16FT TWT 325(0A270B) 105-0 ORB.
R2F0A1	D	DATA NOT AVAILABLE

ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
5.000	.000	.000	.000	.000	.000	90.000
5.000	.000	.000	.000	.000	.000	
5.000	.000	.000	.000	25.500	-.030	90.000
5.000	.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	55.570	.060	90.000
5.000	.000	.000	.000	55.000	.000	

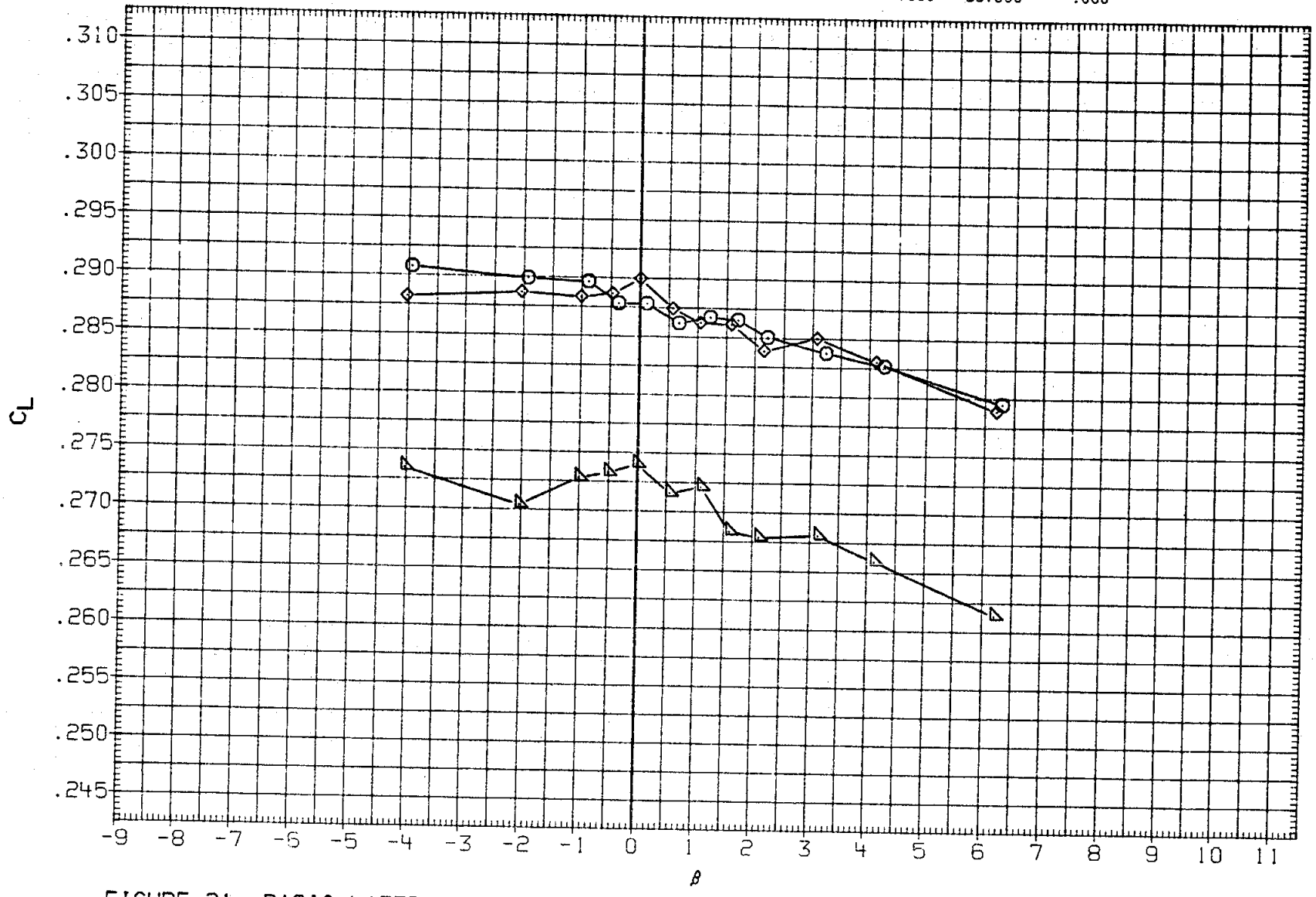

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(H)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	D	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.000	.000	

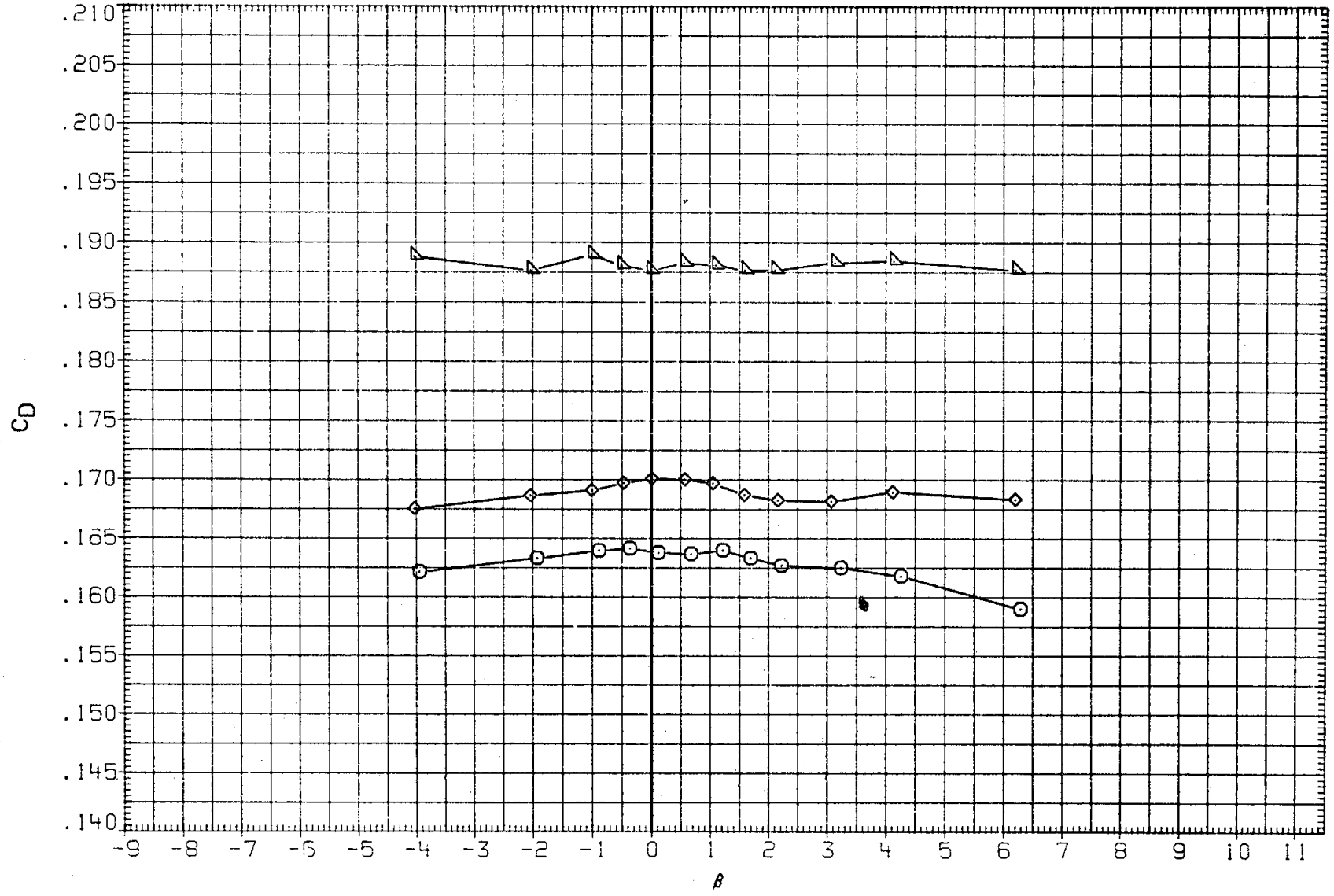

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(H)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	◺	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.000	.000	

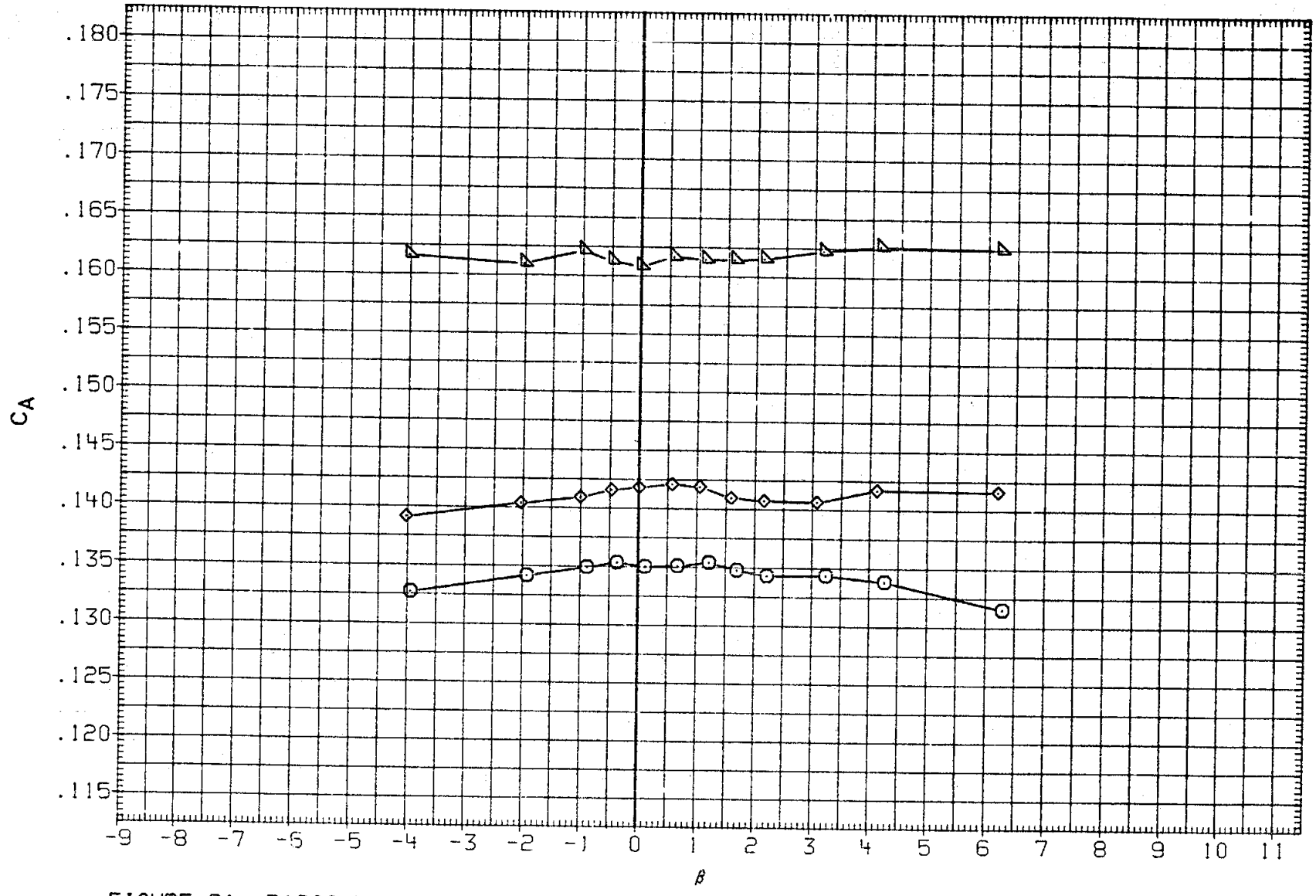

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(H)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	◗	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.000	.000	

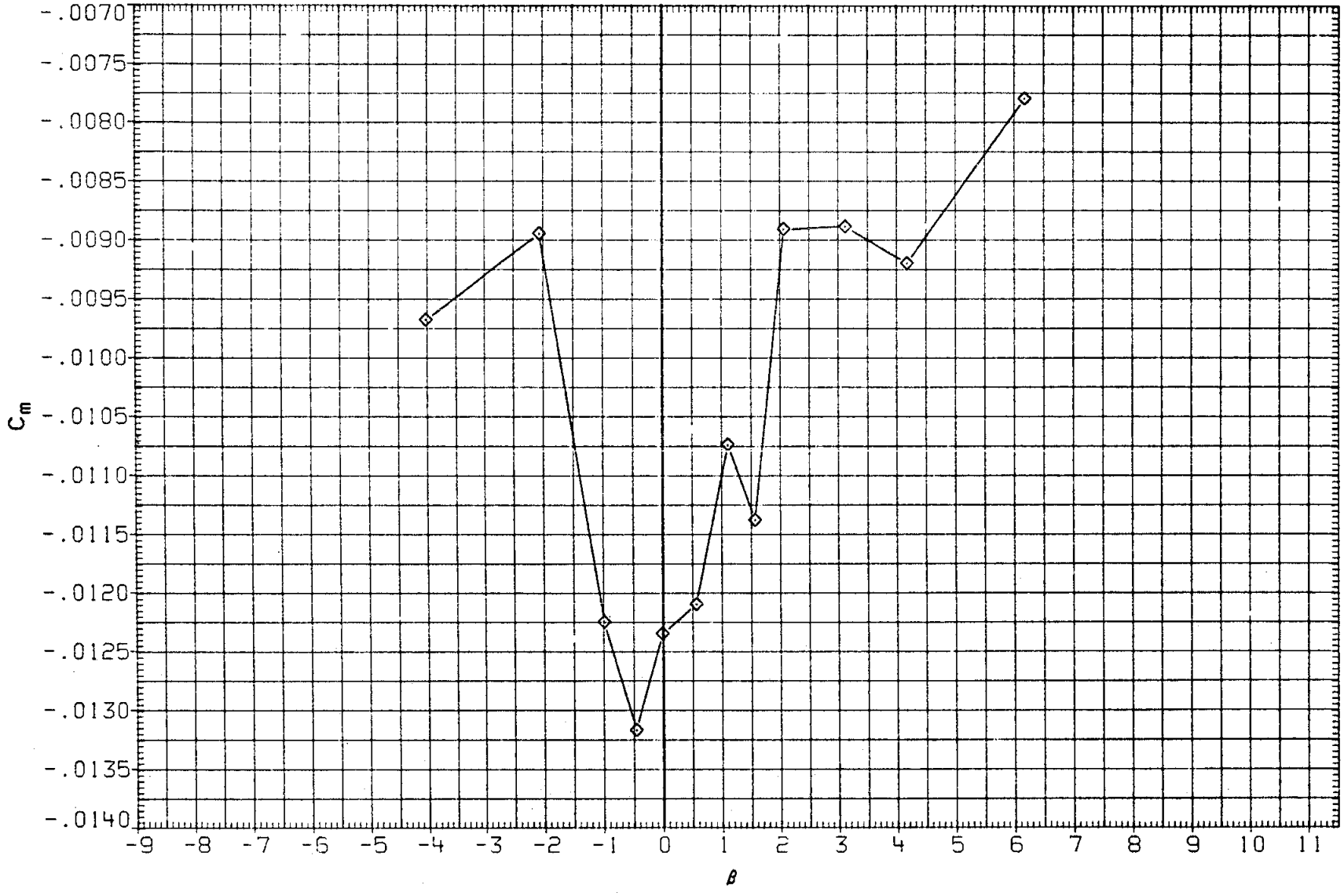

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(I)MACH = 1.07

DATA SET	SYMBOL	CONFIGURATION
RK0031	○	DATA NOT AVAILABLE
R2F073	□	DATA NOT AVAILABLE
RK0027	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.
R2F018	△	DATA NOT AVAILABLE
RK0032	◸	DATA NOT AVAILABLE
R2F0A1	D	DATA NOT AVAILABLE

ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
5.000	.000	.000	.000	.000	.000	90.000
5.000	.000	.000	.000	.000	.000	
5.000	.000	.000	.000	25.500	-.030	90.000
5.000	.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	55.570	.060	90.000
5.000	.000	.000	.000	55.000	.000	

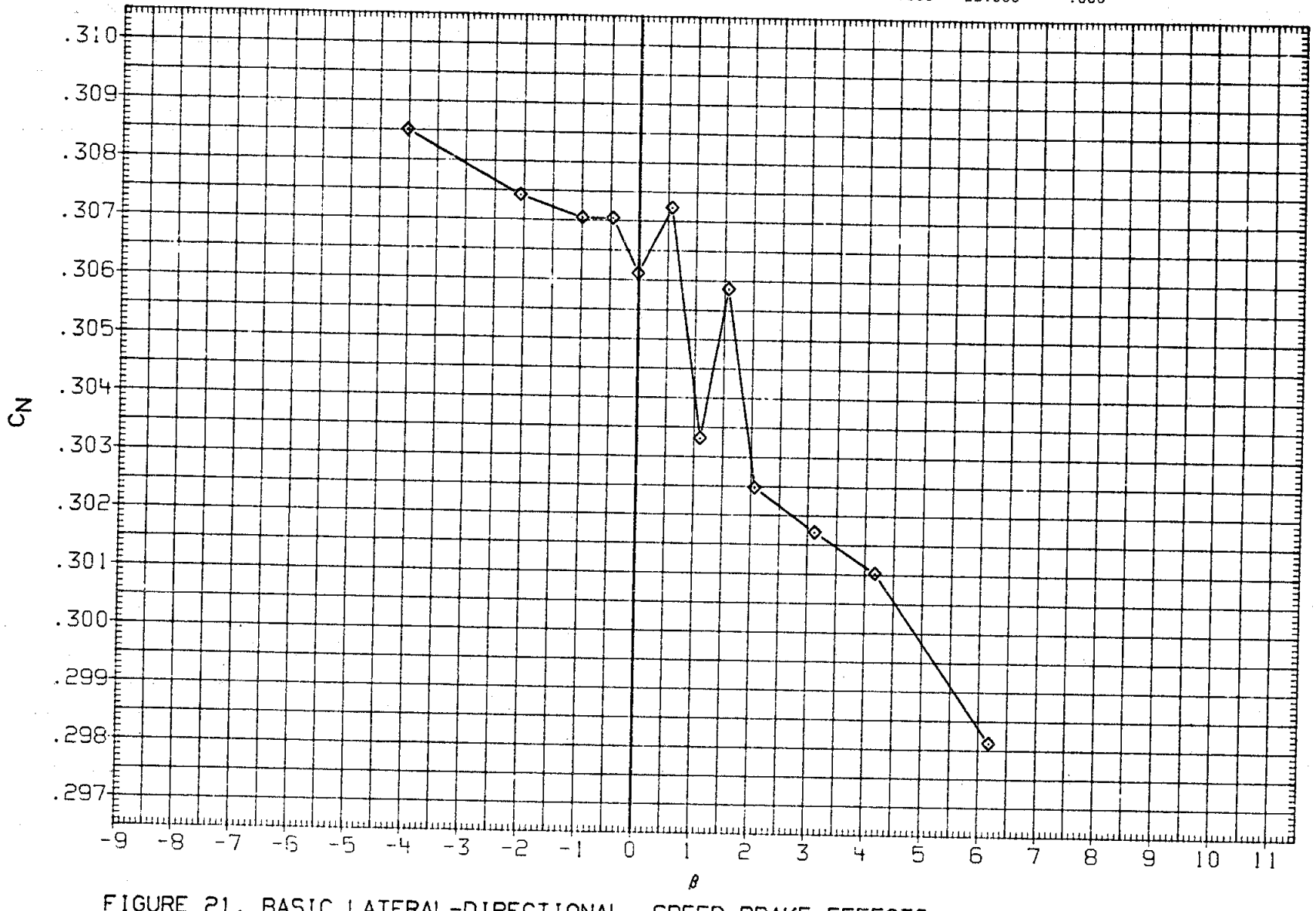

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(I)MACH = 1.07

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RK0032	◁	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	D	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.000	.000	

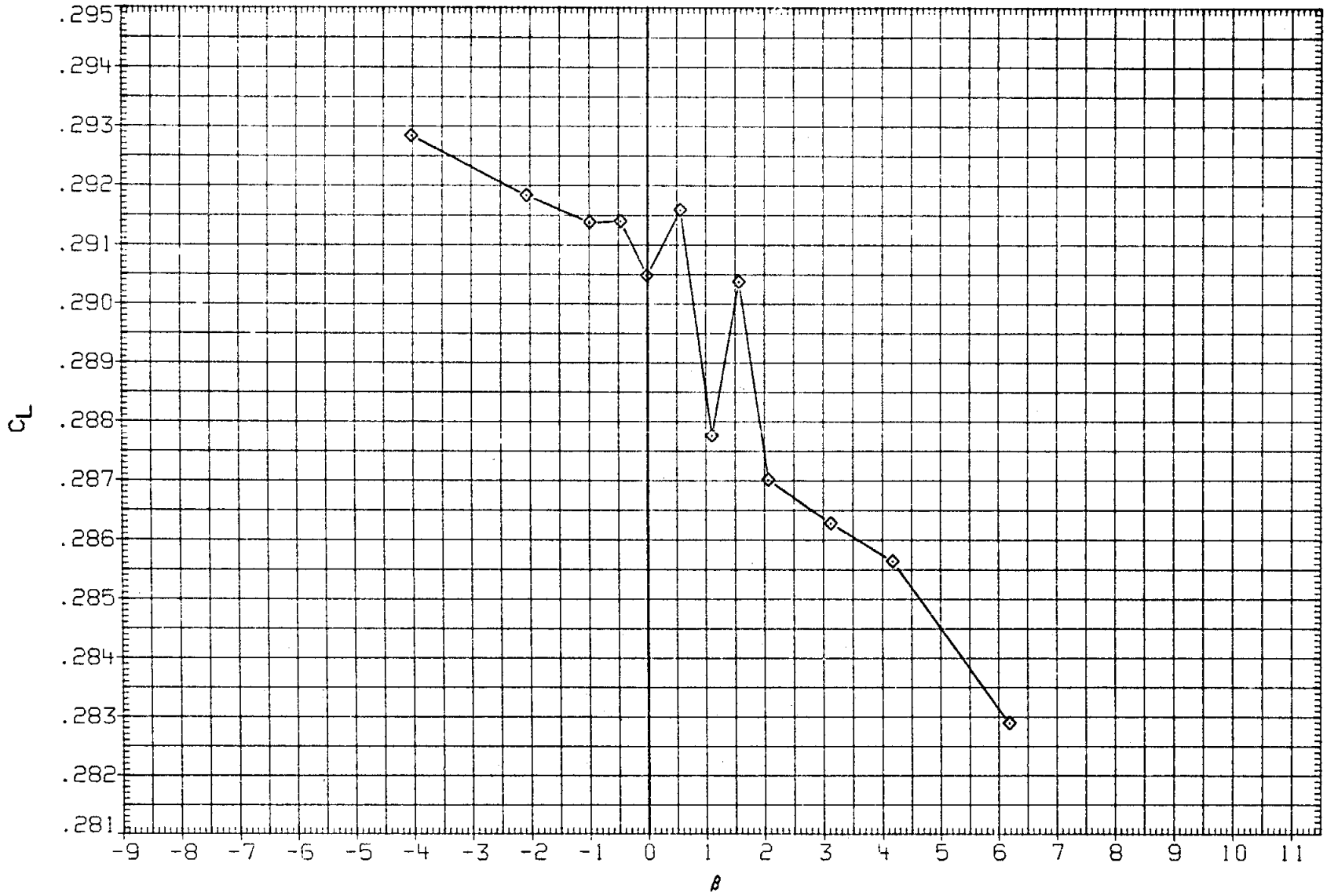

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(I)MACH = 1.07

DATA SET	SYMBOL	CONFIGURATION
RK0031	○	DATA NOT AVAILABLE
R2F073	□	DATA NOT AVAILABLE
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F018	△	DATA NOT AVAILABLE
RK0032	◺	DATA NOT AVAILABLE
R2F0A1	▢	DATA NOT AVAILABLE

ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
5.000	.000	.000	.000	.000	.000	90.000
5.000	.000	.000	.000	.000	.000	
5.000	.000	.000	.000	25.500	-.030	90.000
5.000	.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	55.570	.060	90.000
5.000	.000	.000	.000	55.000	.000	

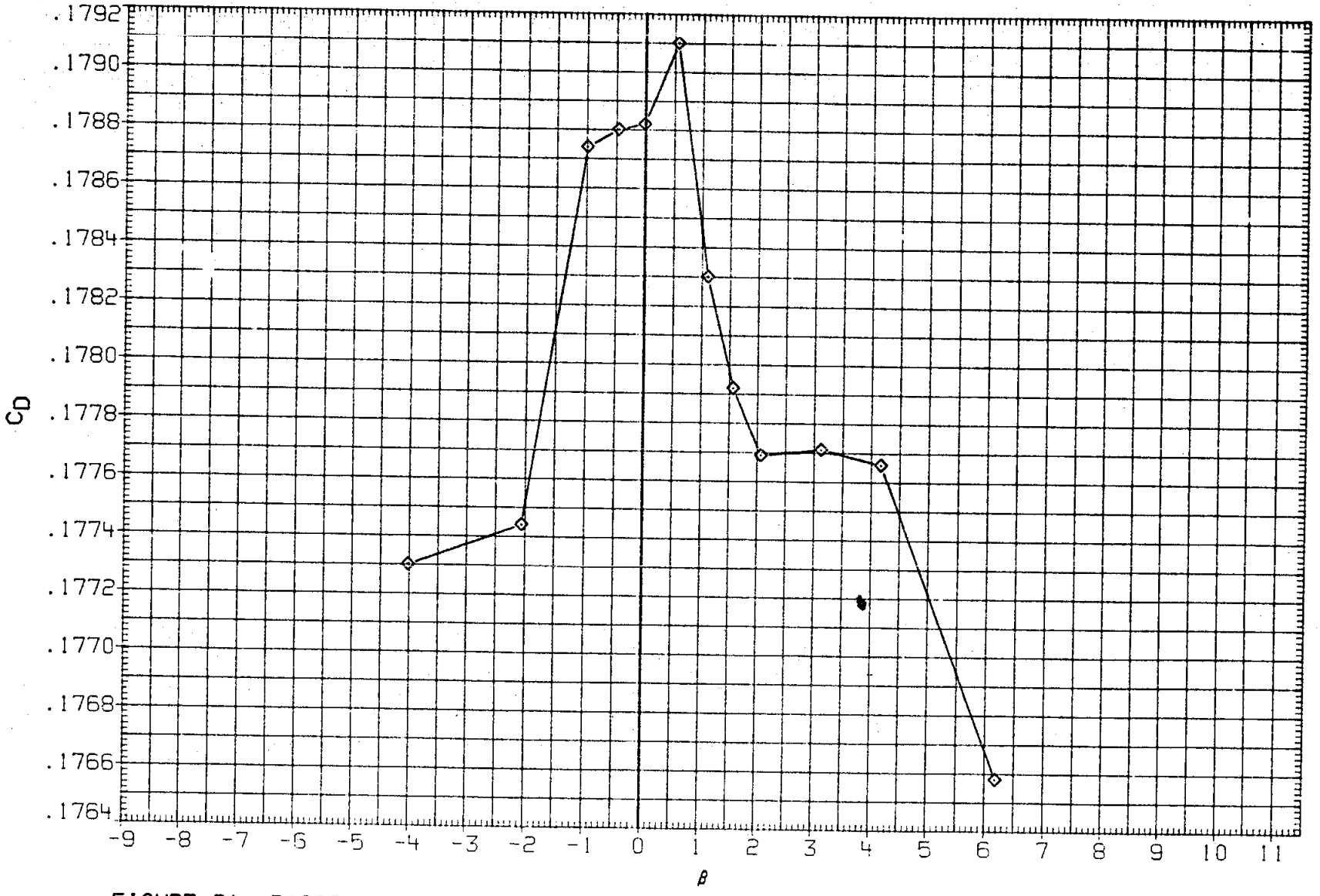

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(I)MACH = 1.07

DATA SET	SYMBOL	CONFIGURATION
RK0031	○	DATA NOT AVAILABLE
R2F073	□	DATA NOT AVAILABLE
RK0027	◇	LARC 16FT TWT 325(GA270B) 105-0 ORB.
R2F018	△	DATA NOT AVAILABLE
RK0032	◺	DATA NOT AVAILABLE
R2F0A1	◻	DATA NOT AVAILABLE

ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
5.000	.000	.000	.000	.000	.000	90.000
5.000	.000	.000	.000	.000	.000	
5.000	.000	.000	.000	25.500	-.030	90.000
5.000	.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	55.570	.060	90.000
5.000	.000	.000	.000	55.000	.000	

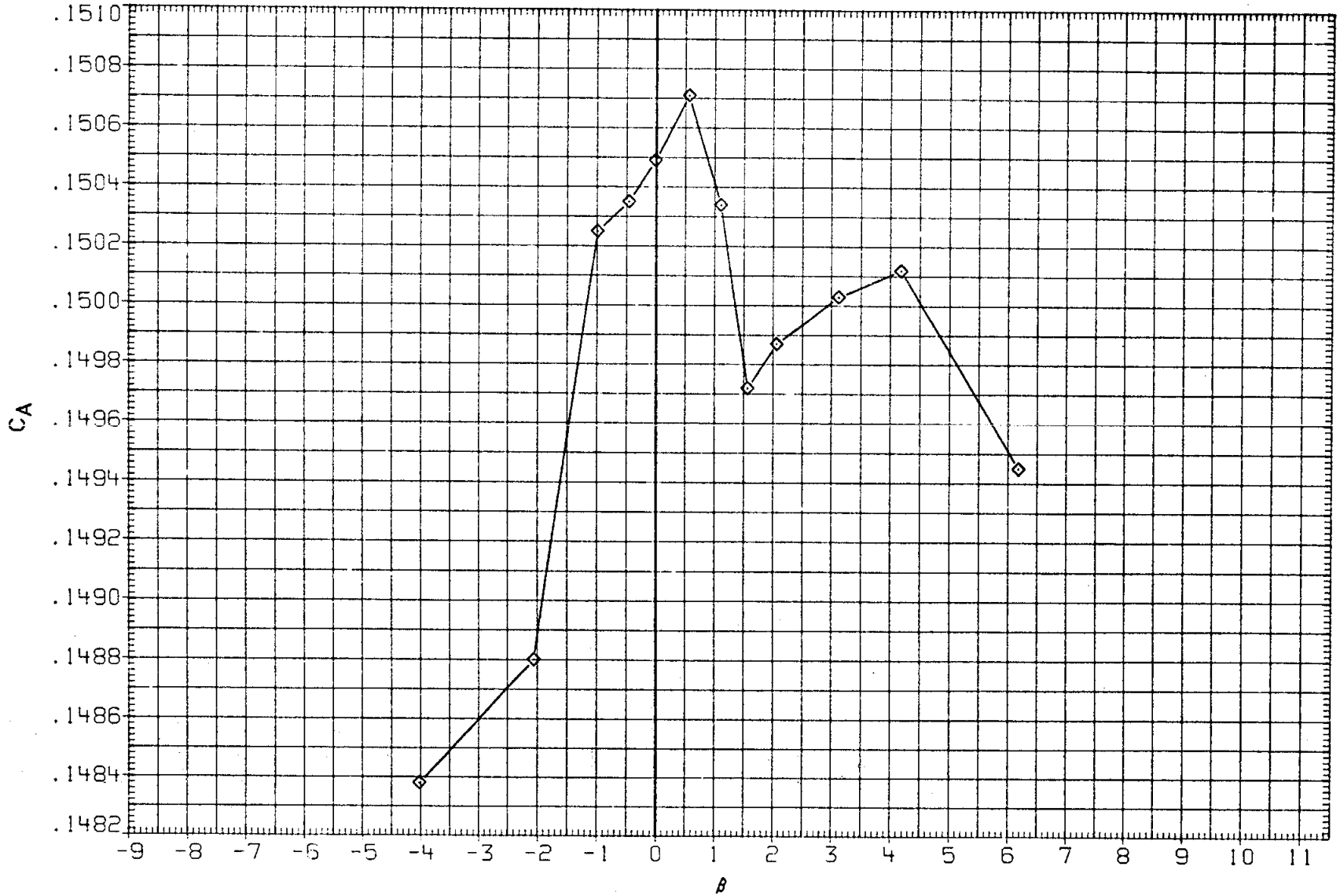

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(I)MACH = 1.07

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	AMES 118-1-11 0A145A 01	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	AMES 118-1-11 0A145A 01	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	LARC 16FT TWT 325(0A270B) 105-0 ORB.	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	D	AMES 118-1-11 0A145A 01	5.000	.000	.000	.000	55.000	.000	

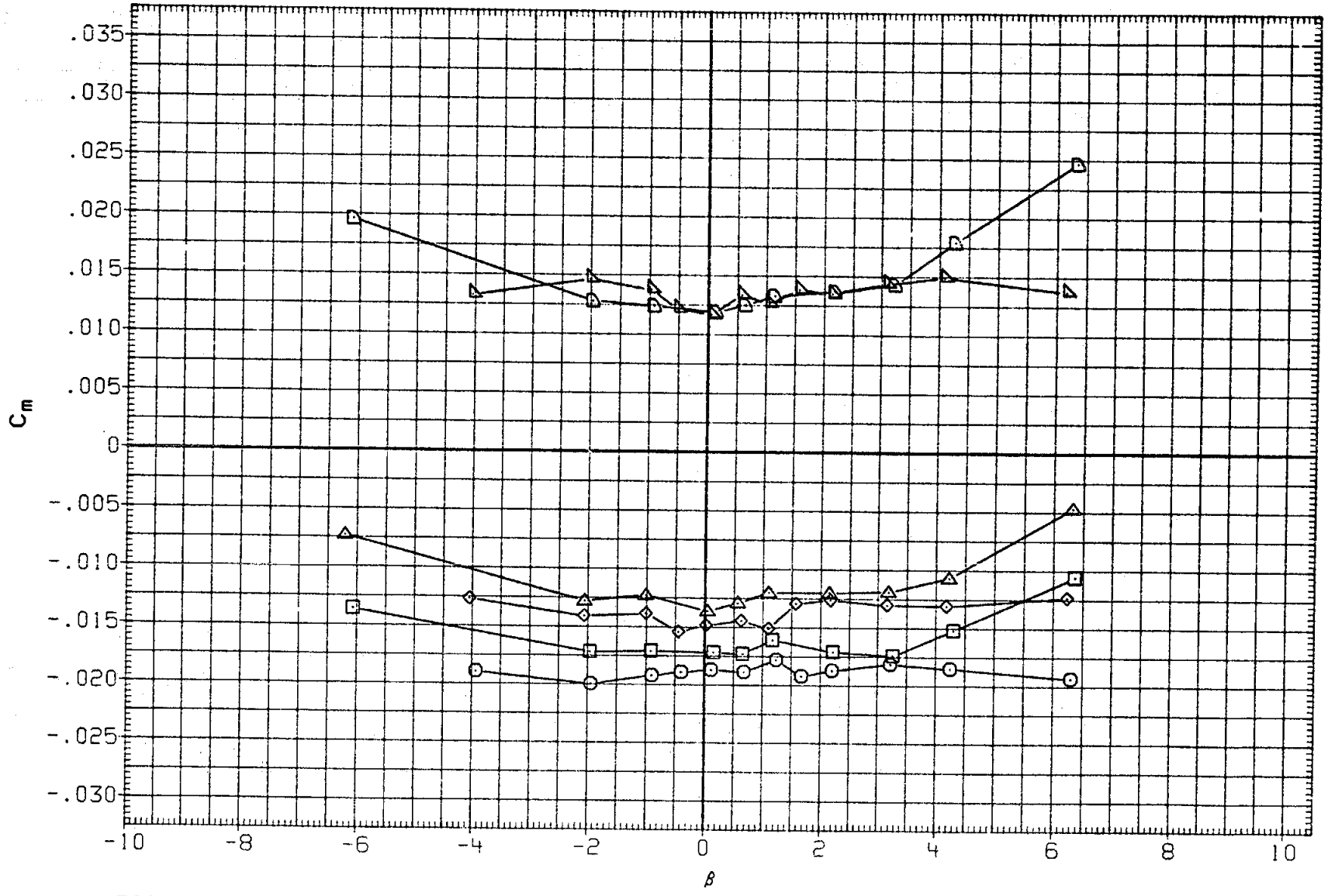

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(J)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	◻	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	55.000	.000	

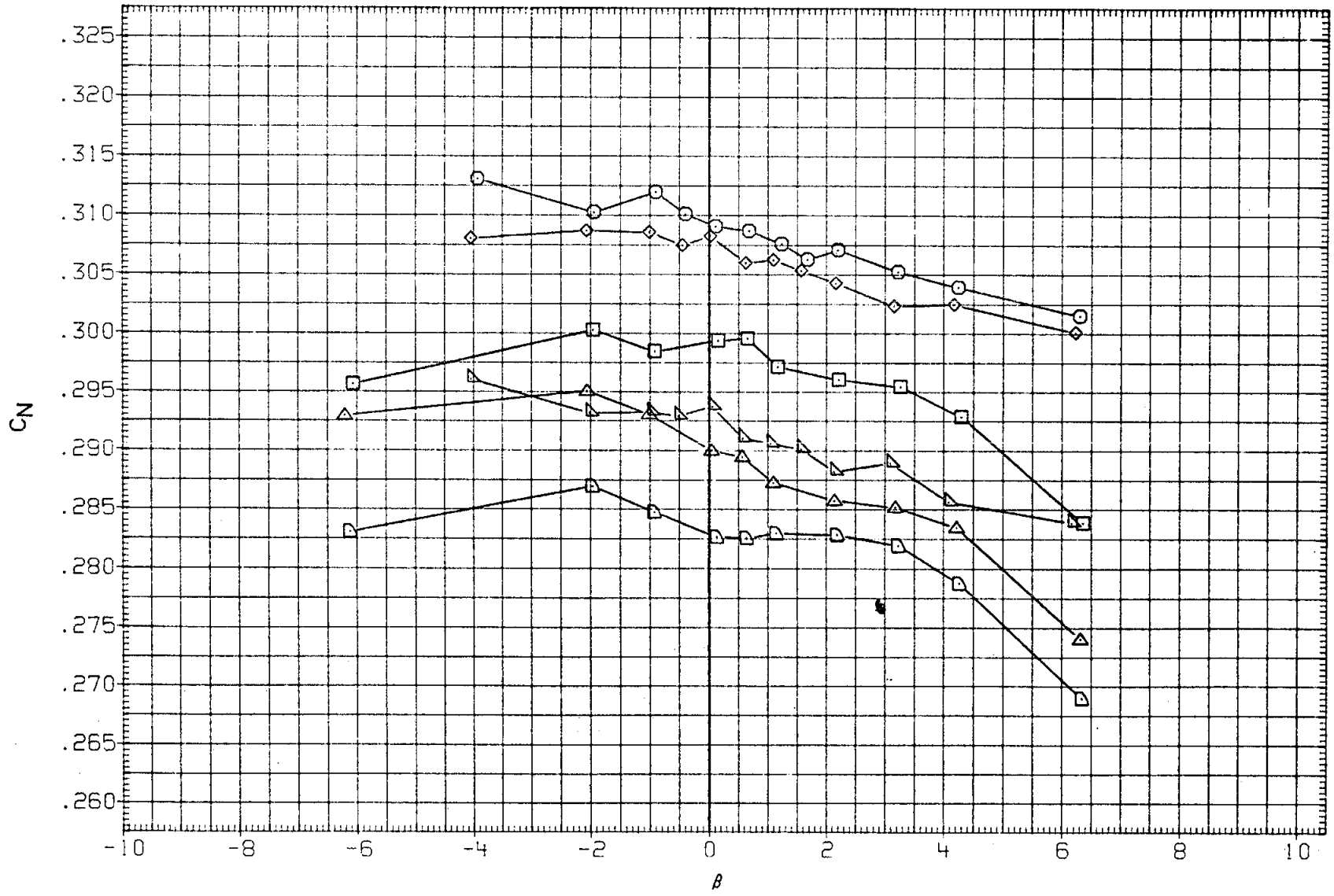

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(J)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	◸	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	55.000	.000	

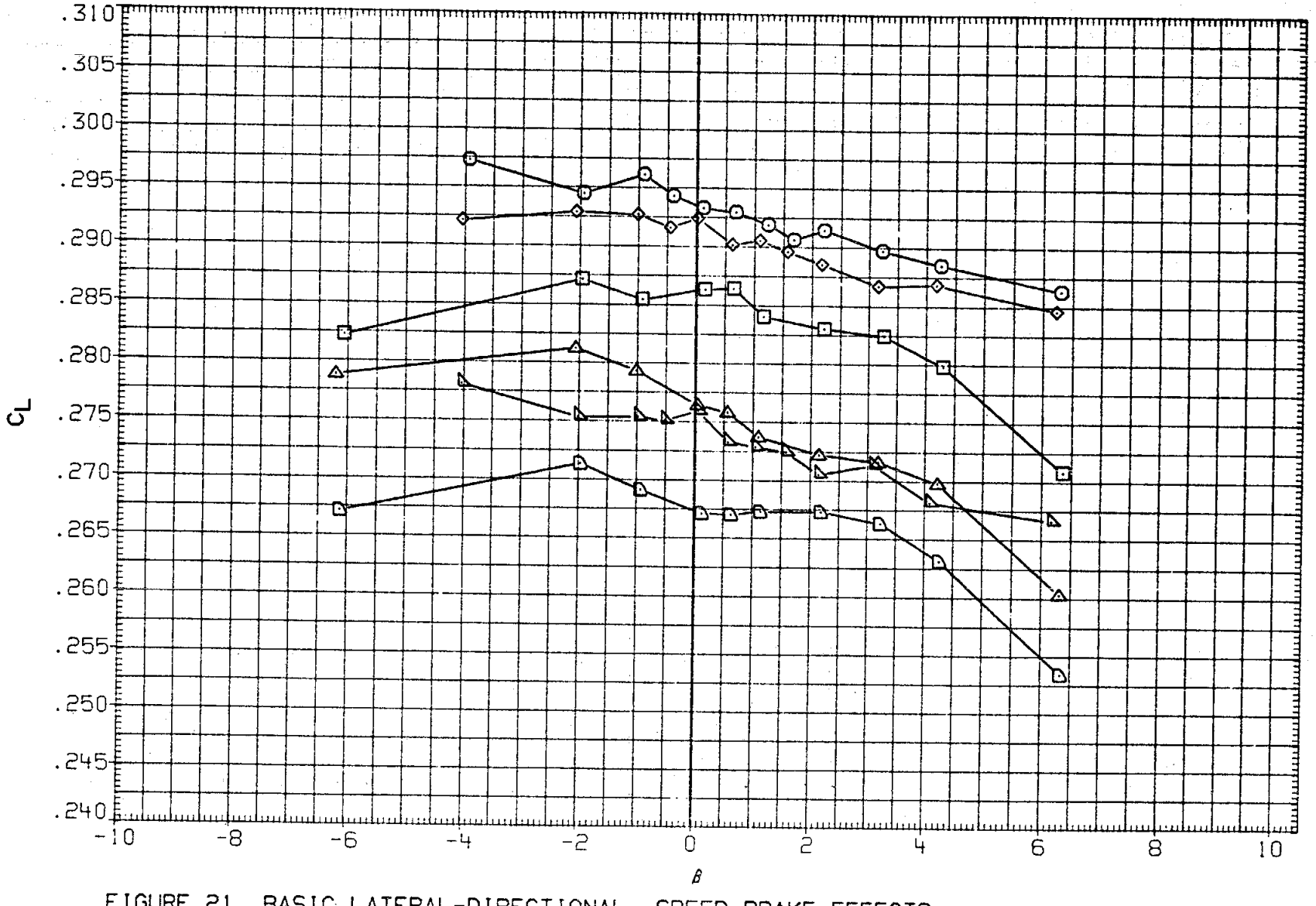

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(J)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION
RK0031	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F073	□	AMES 118-1-11 OA145A 01
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F018	△	AMES 118-1-11 OA145A 01
RK0032	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F0A1	◻	AMES 118-1-11 OA145A 01

ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
5.000	.000	.000	.000	.000	.000	90.000
5.000	.000	.000	.000	.000	.000	
5.000	.000	.000	.000	25.500	-.030	90.000
5.000	.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	55.570	.060	90.000
5.000	.000	.000	.000	55.000	.000	

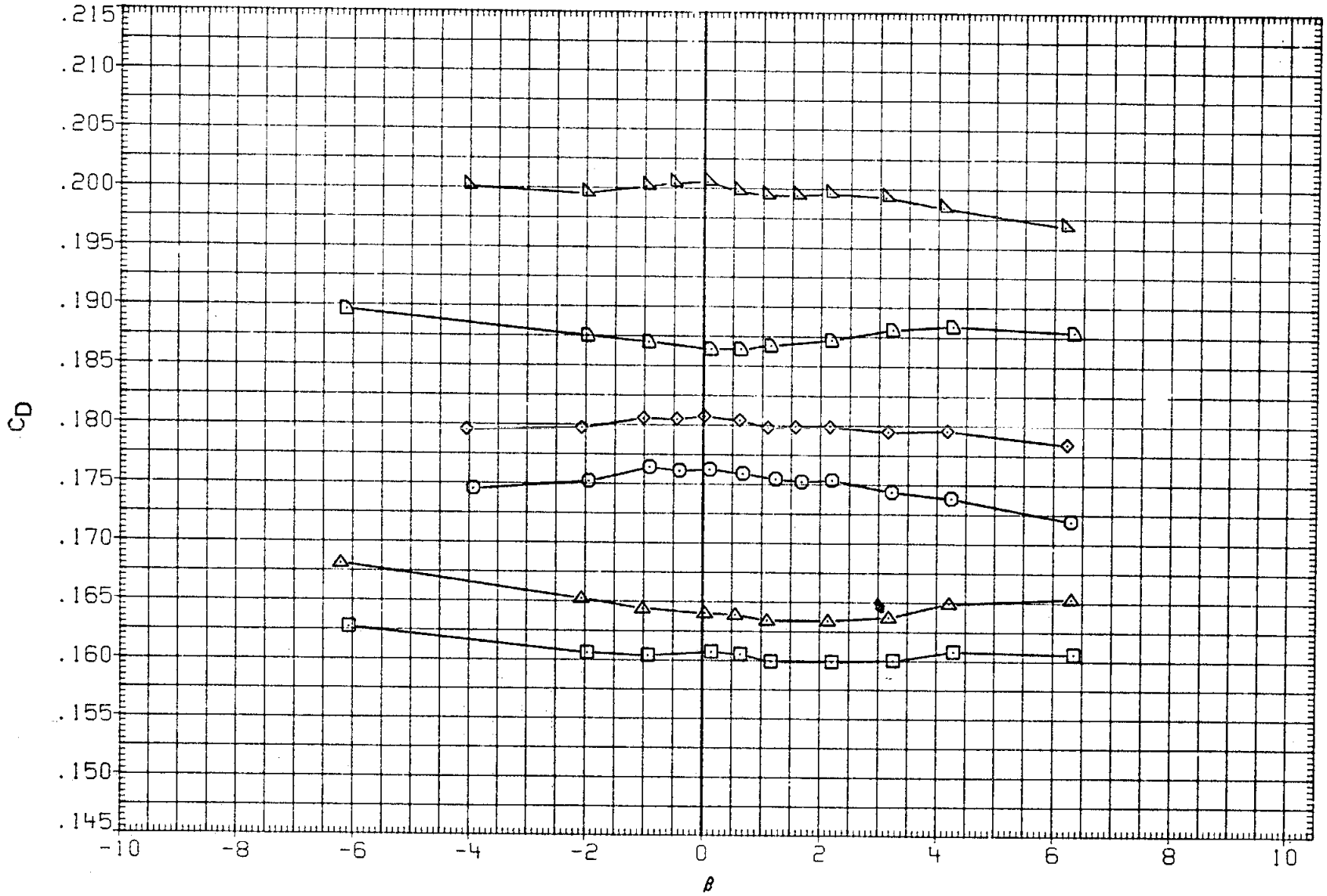

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(J)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION
RK0031	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F073	□	AMES 118-1-11 OA145A 01
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F018	△	AMES 118-1-11 OA145A 01
RK0032	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F0A1	◻	AMES 118-1-11 OA145A 01

ALPHA	ELEVON	AILRON	BDFLAP	SPOBRK	RUDDER	PHI
5.000	.000	.000	.000	.000	.000	90.000
5.000	.000	.000	.000	.000	.000	
5.000	.000	.000	.000	25.500	-.030	90.000
5.000	.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	55.570	.060	90.000
5.000	.000	.000	.000	55.000	.000	

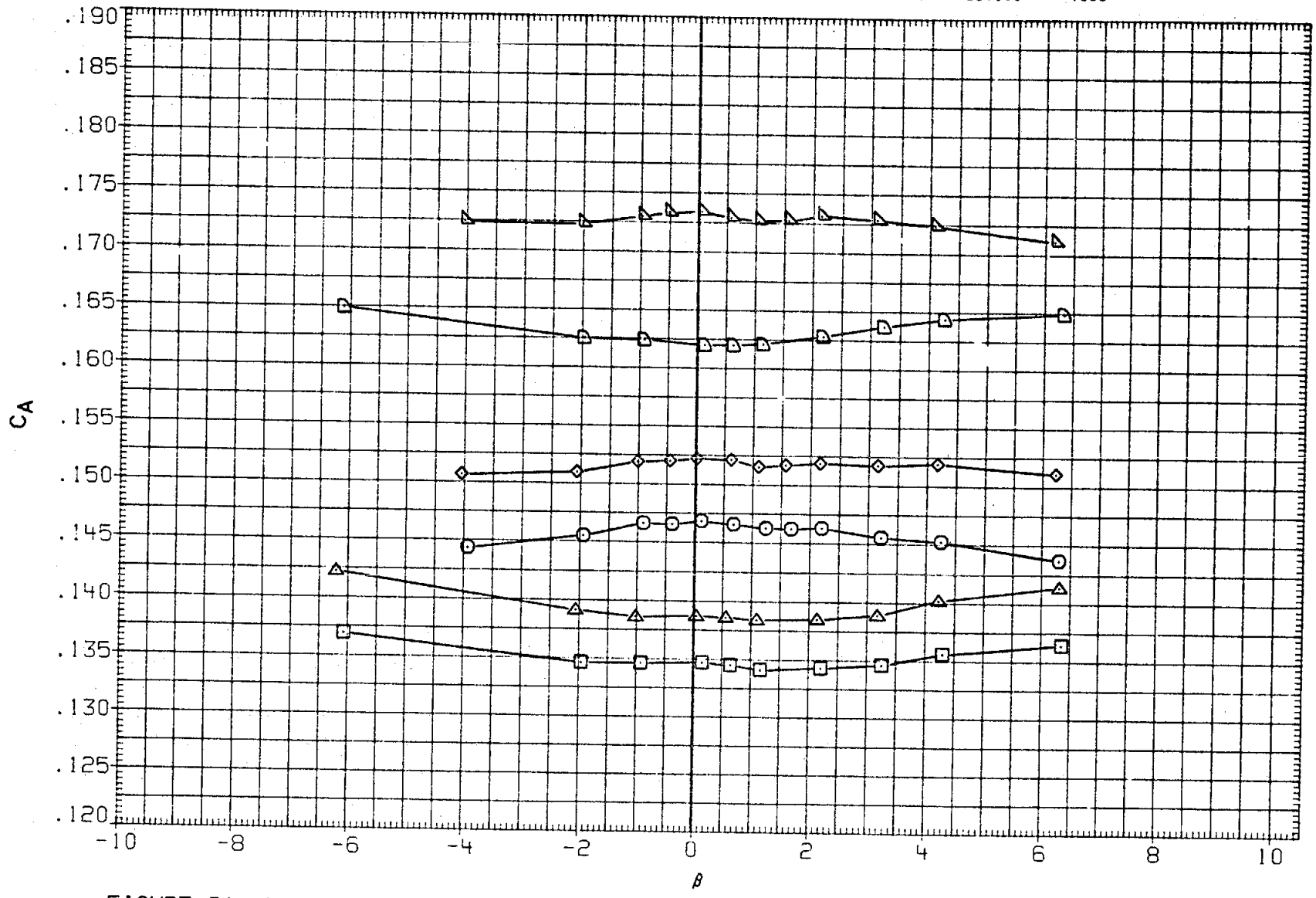

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(J)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	D	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.000	.000	

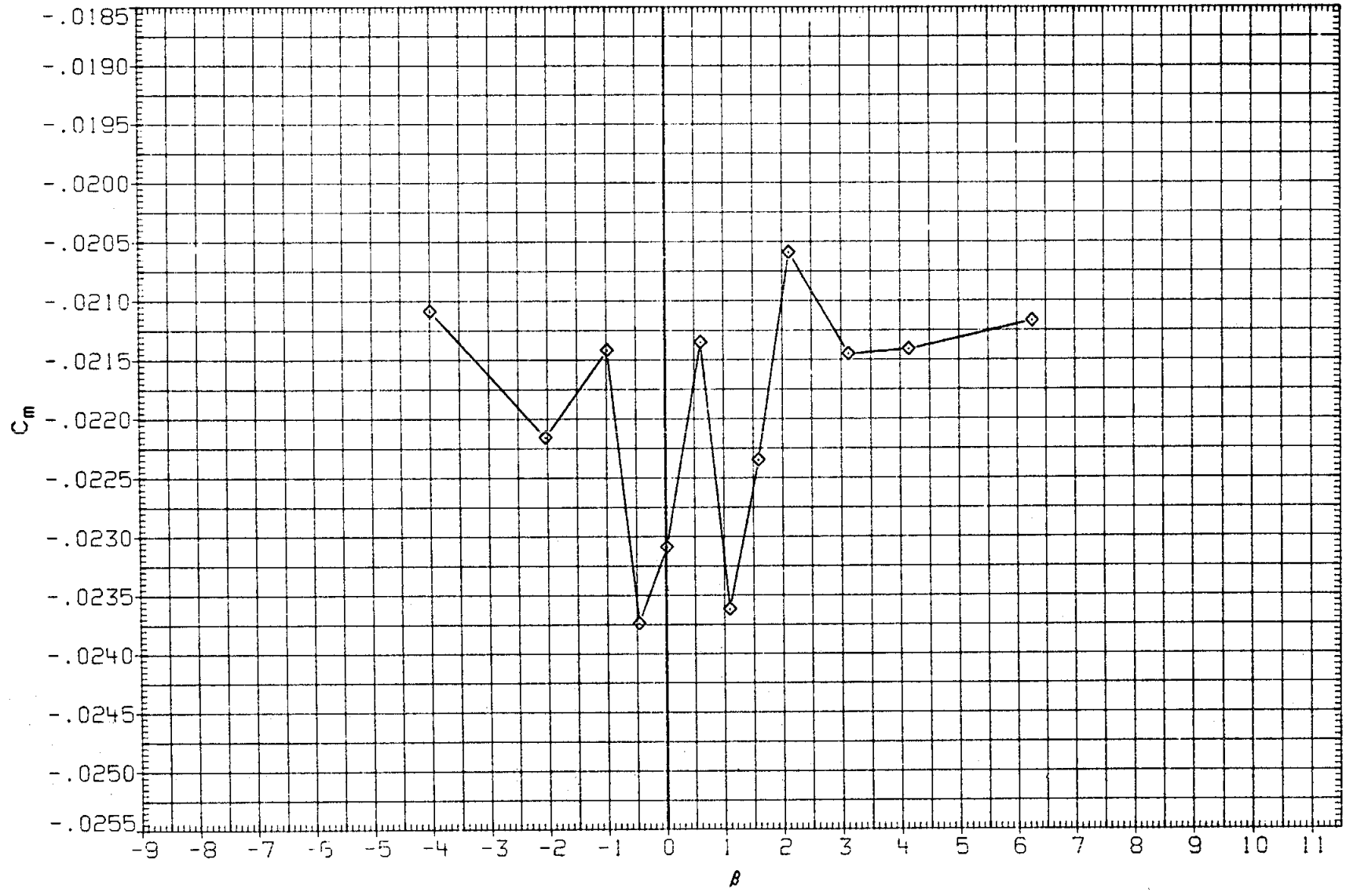

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(K)MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	◻	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.000	.000	

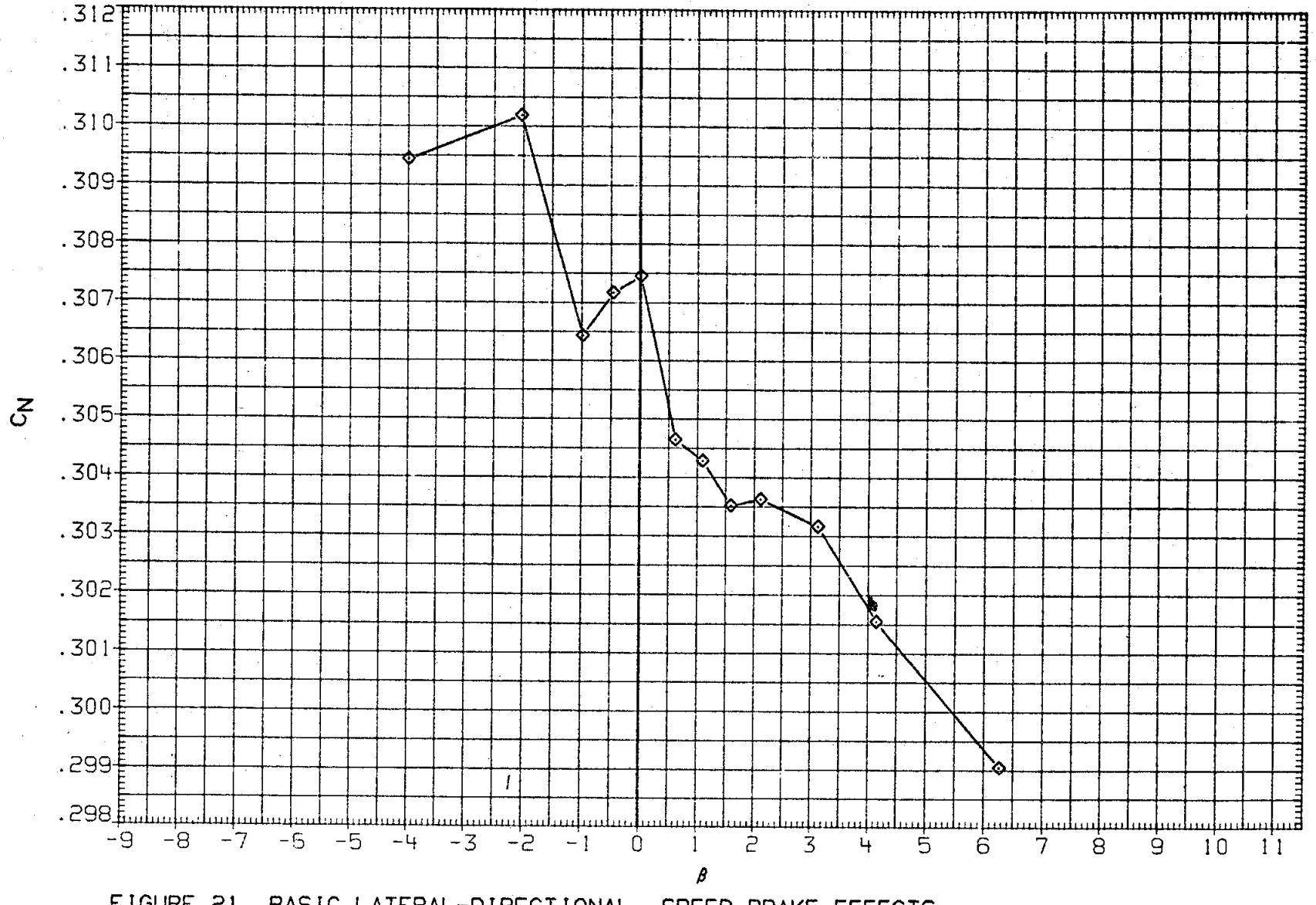

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(K)MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	◻	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.000	.000	

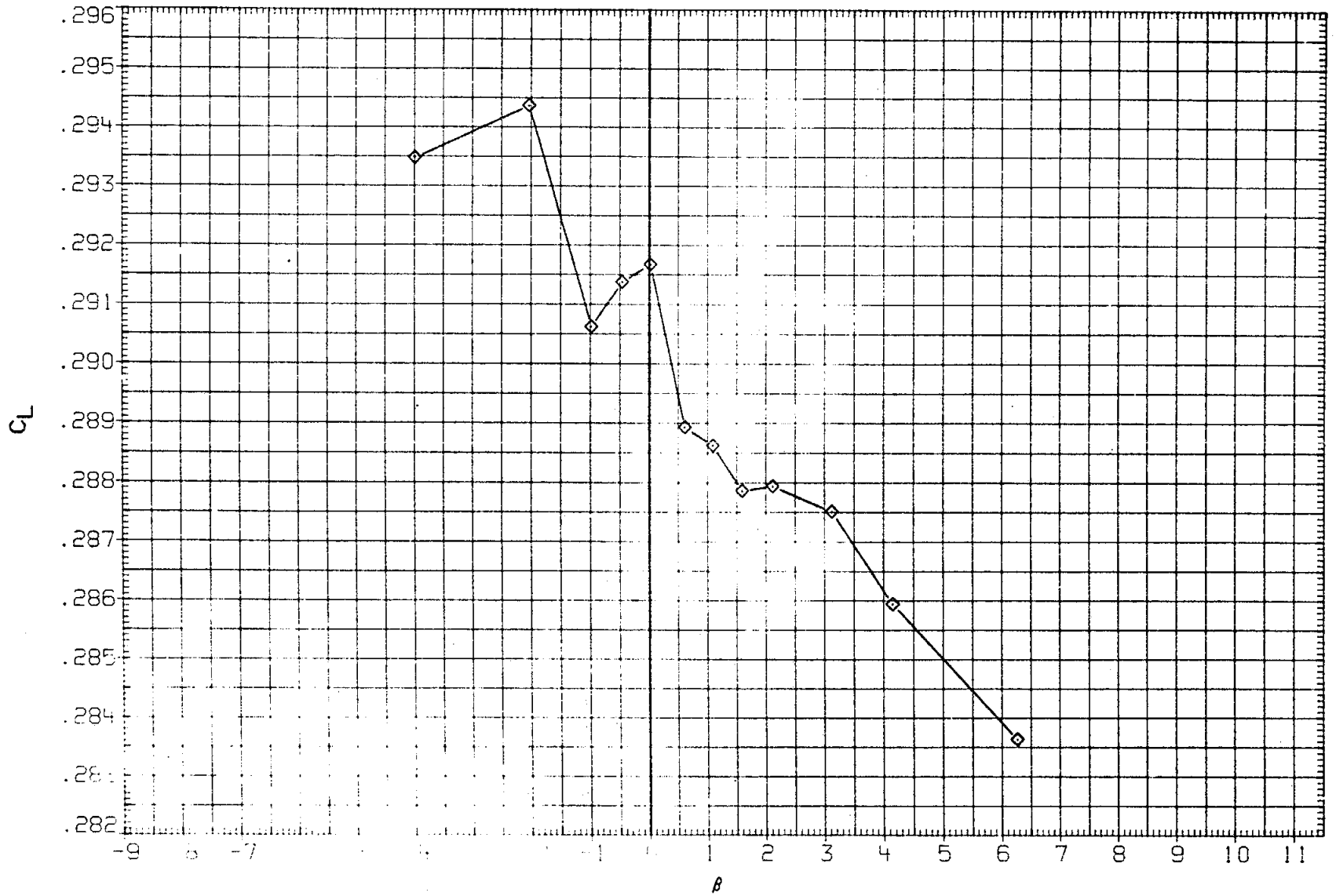

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(K)MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION
RK0031	○	DATA NOT AVAILABLE
R2F073	□	DATA NOT AVAILABLE
RK0027	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.
R2F018	△	DATA NOT AVAILABLE
RK0032	◺	DATA NOT AVAILABLE
R2F0A1	D	DATA NOT AVAILABLE

ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
5.000	.000	.000	.000	.000	.000	90.000
5.000	.000	.000	.000	.000	.000	
5.000	.000	.000	.000	25.500	-.030	90.000
5.000	.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	55.570	.060	90.000
5.000	.000	.000	.000	55.000	.000	

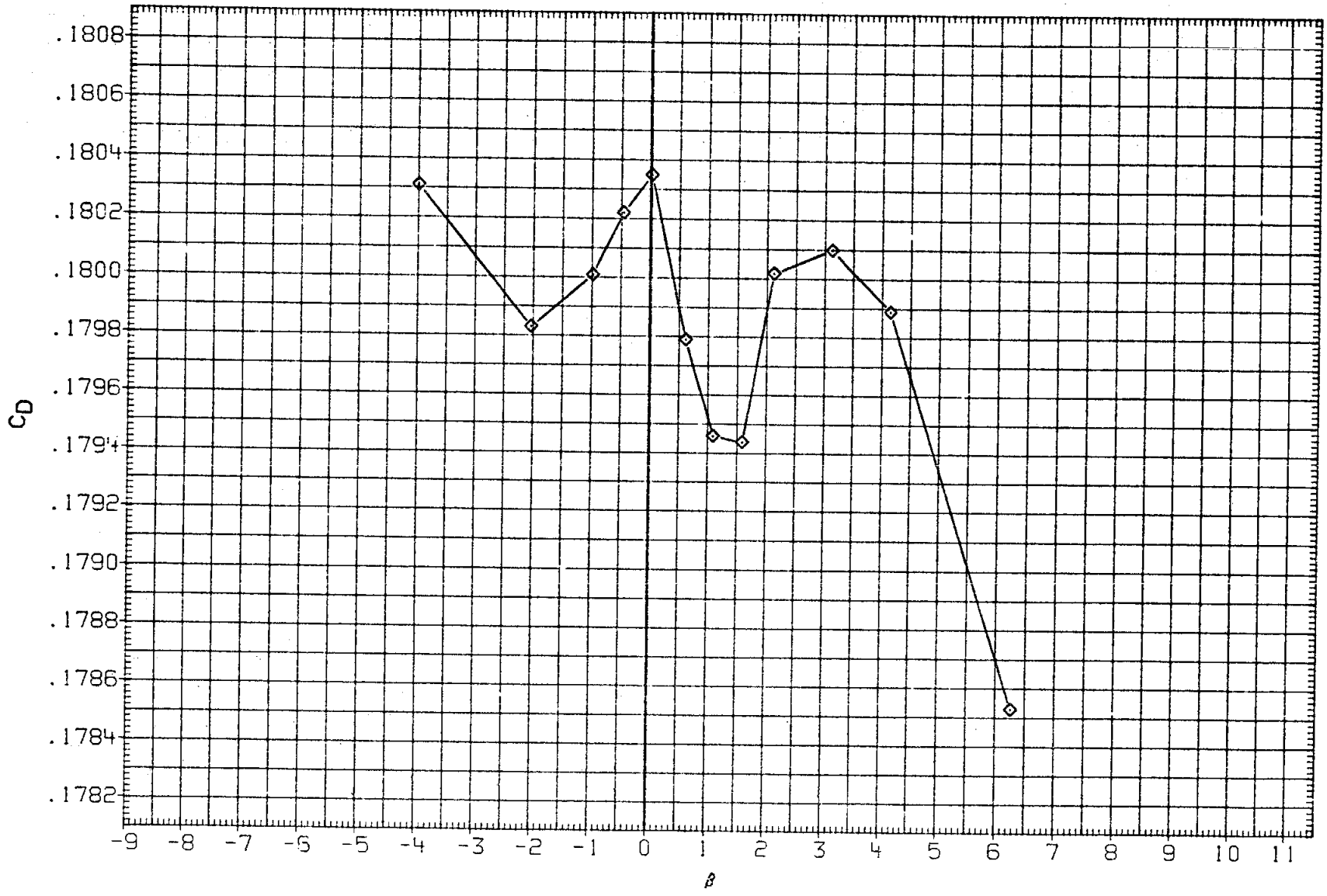

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(K)MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	D	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.000	.000	

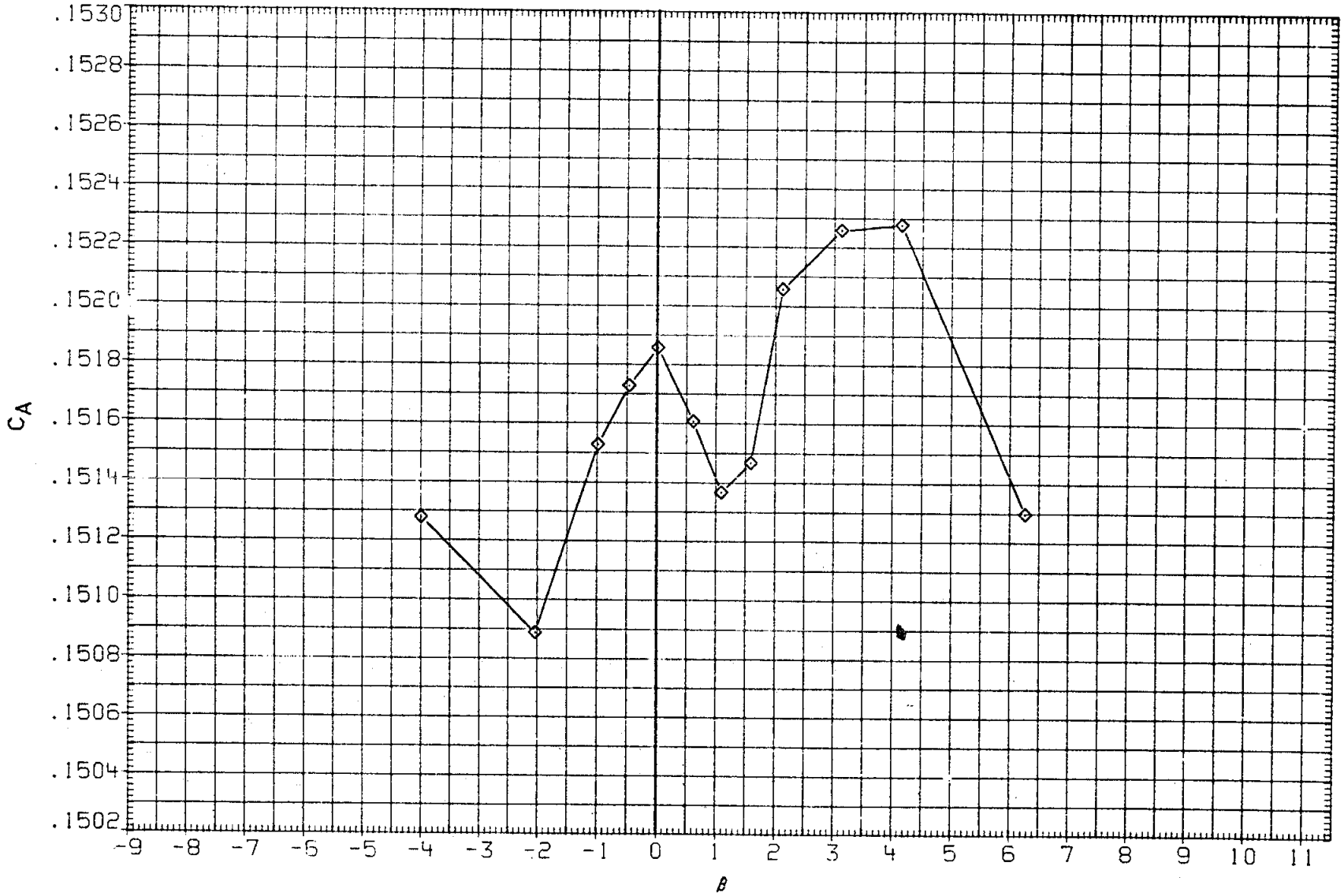

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(K)MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	D	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	55.000	.000	

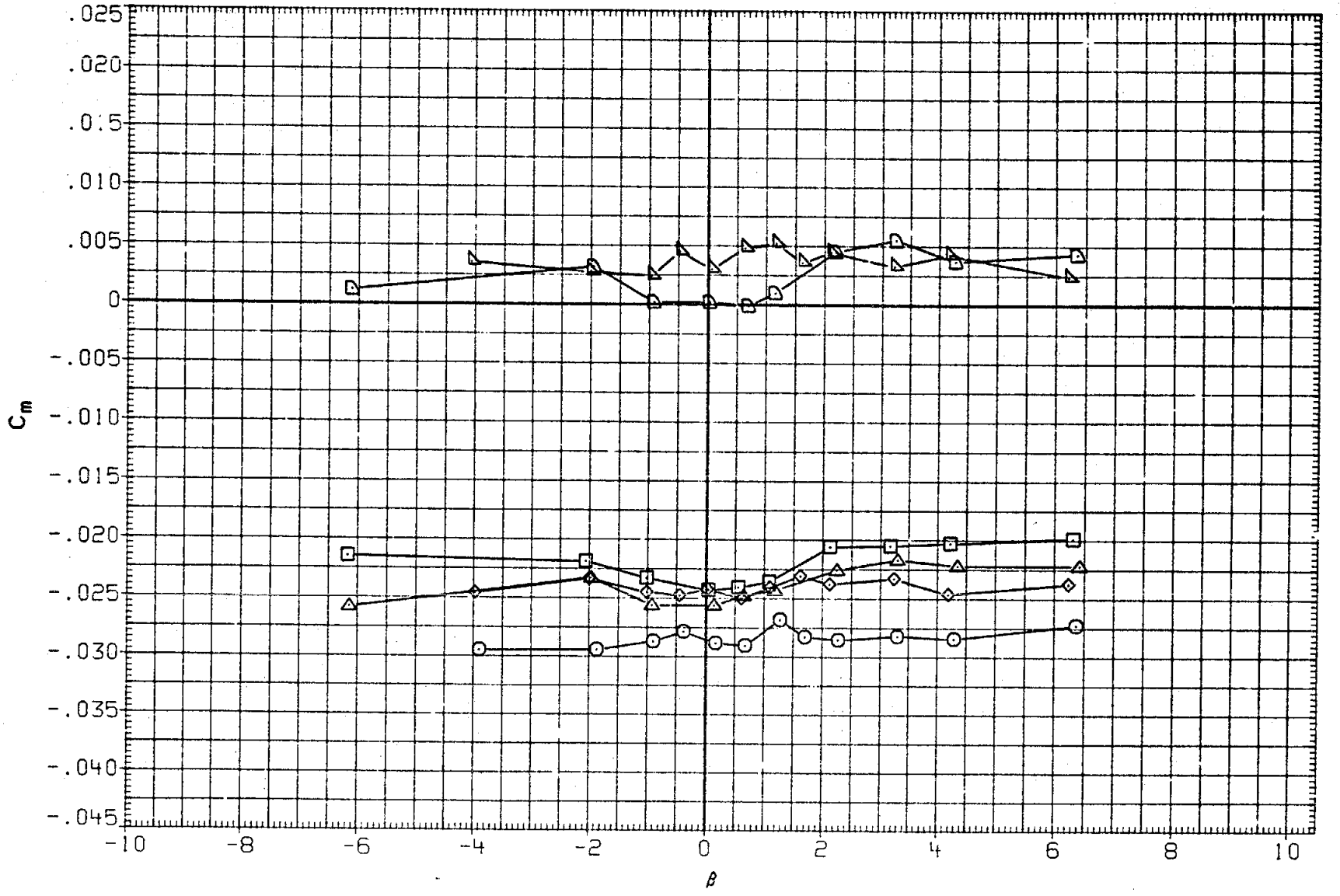

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(L)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	D	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	55.000	.000	

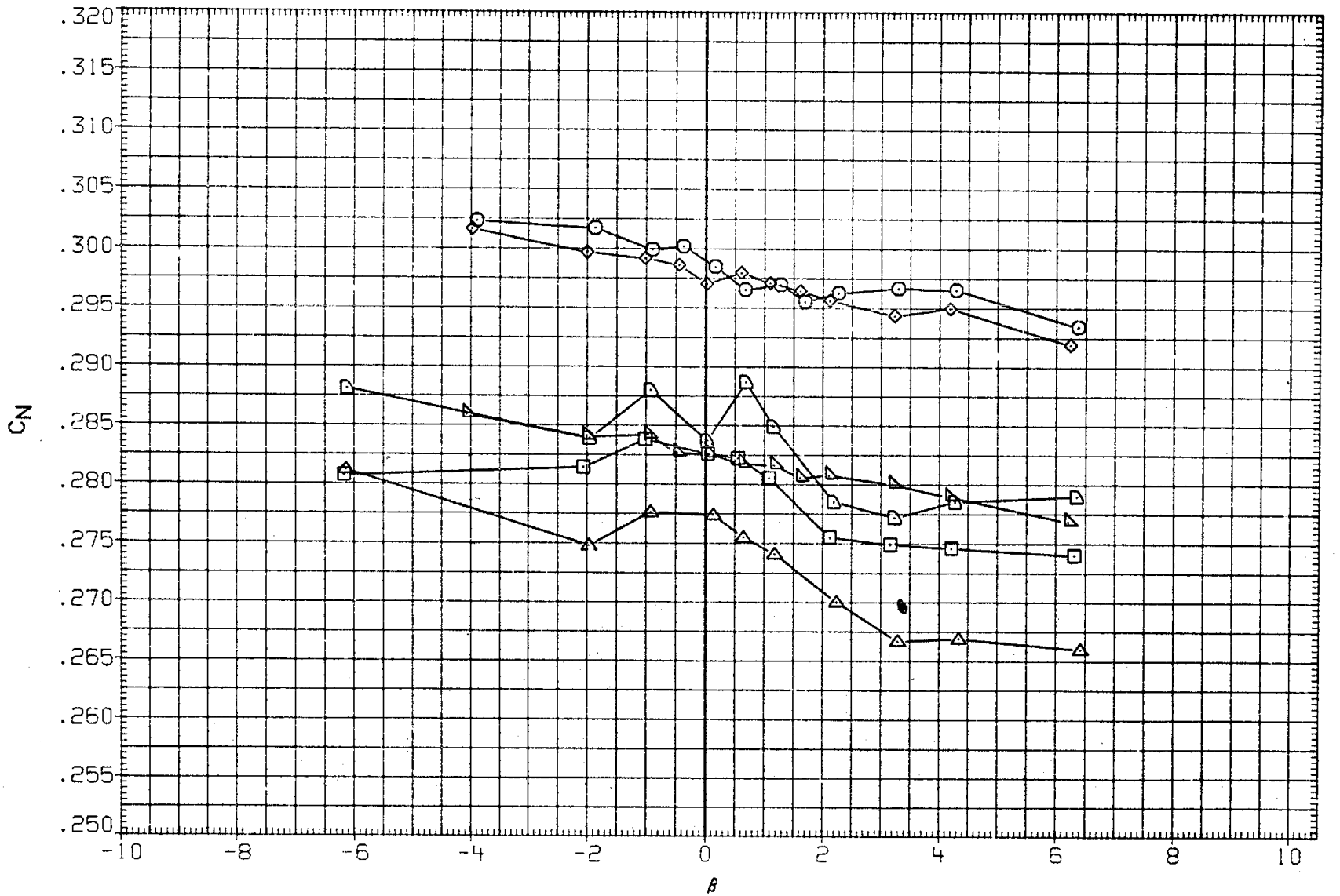

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(L)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	D	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	55.000	.000	

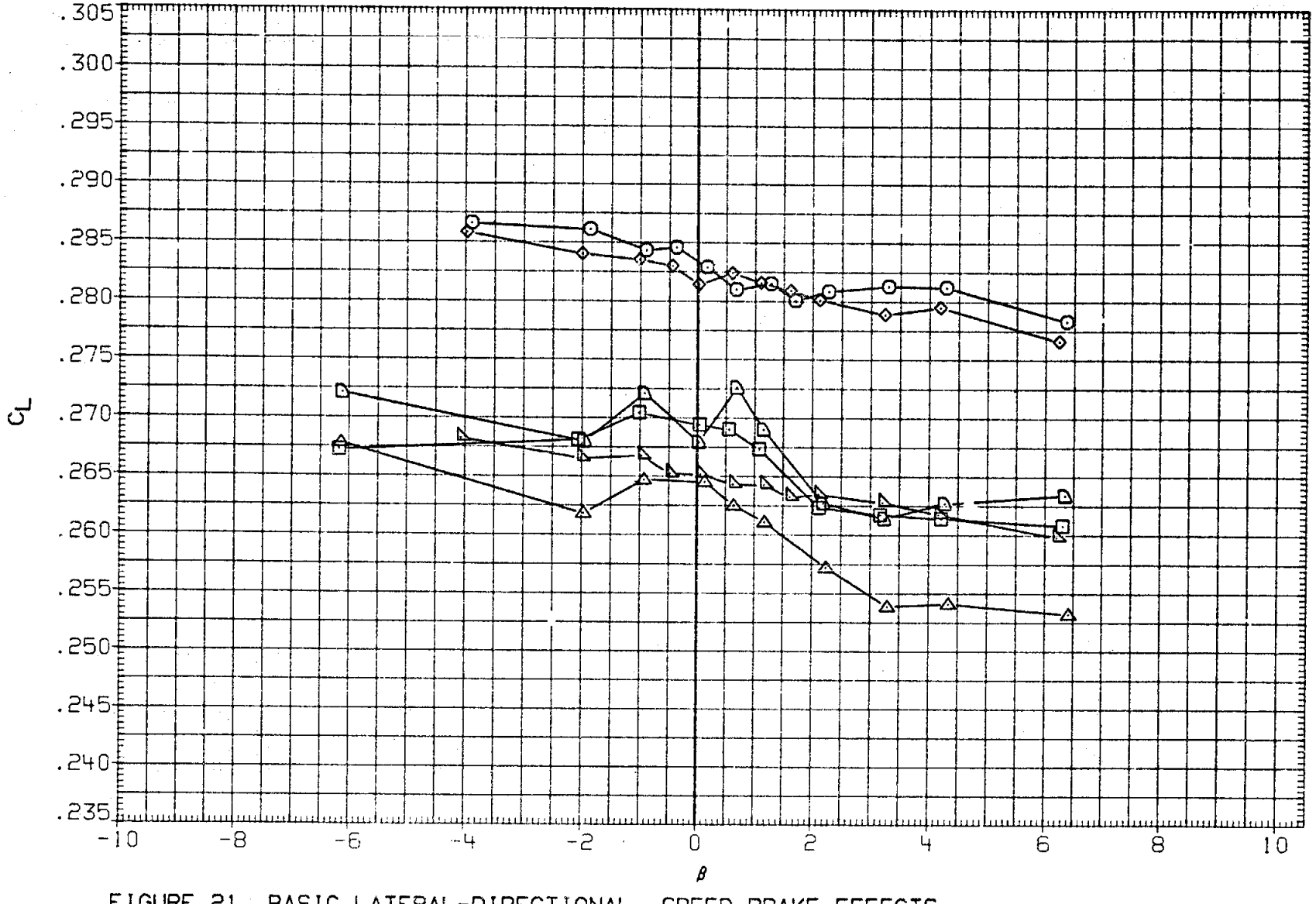

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(L)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	◻	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	55.000	.000	

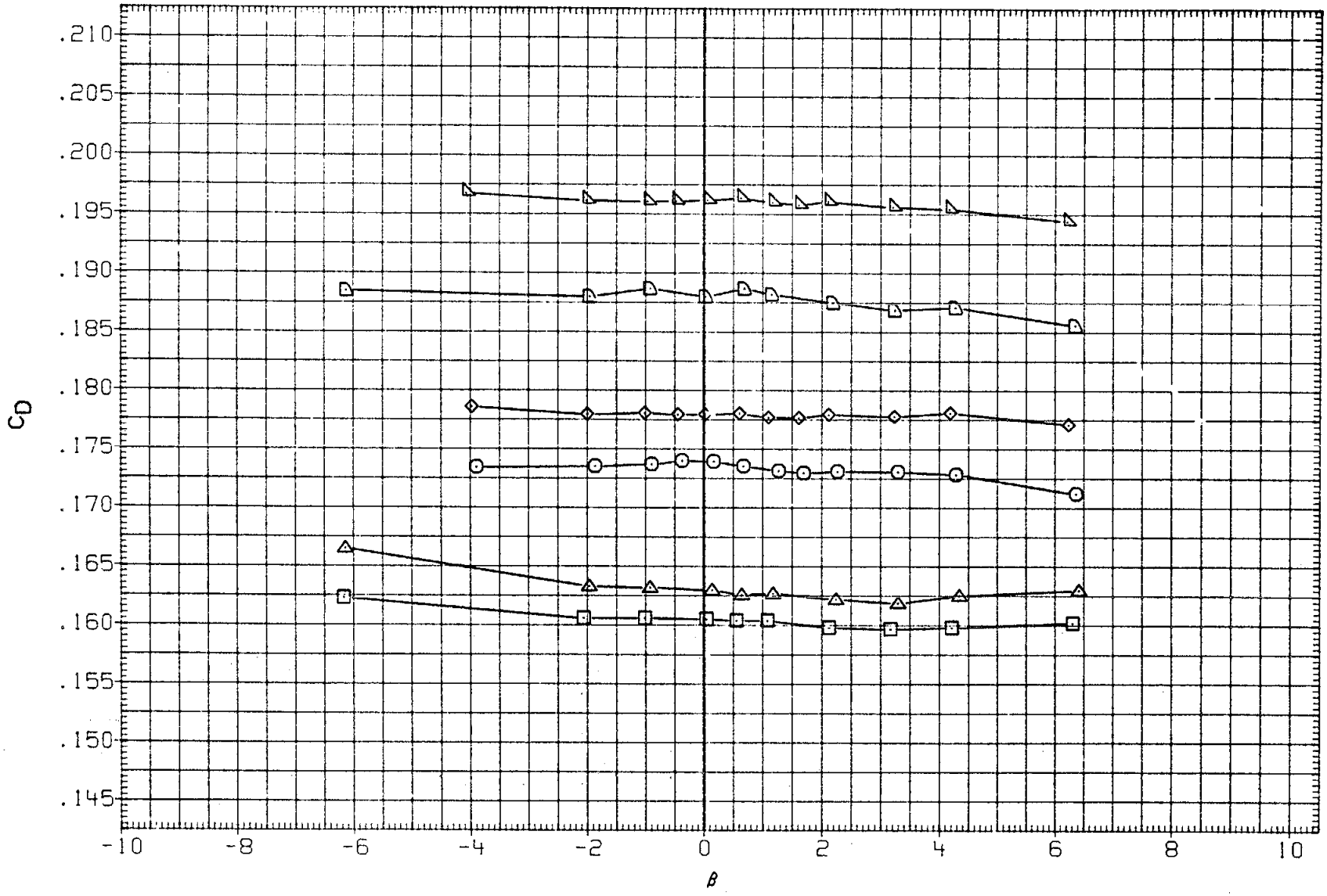

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(L)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION
RK0031	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F073	□	AMES 118-1-11 OA145A 01
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F018	△	AMES 118-1-11 OA145A 01
RK0032	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F0A1	D	AMES 118-1-11 OA145A 01

ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
5.000	.000	.000	.000	.000	.000	90.000
5.000	.000	.000	.000	.000	.000	
5.000	.000	.000	.000	25.500	-.030	90.000
5.000	.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	55.570	.060	90.000
5.000	.000	.000	.000	55.000	.000	

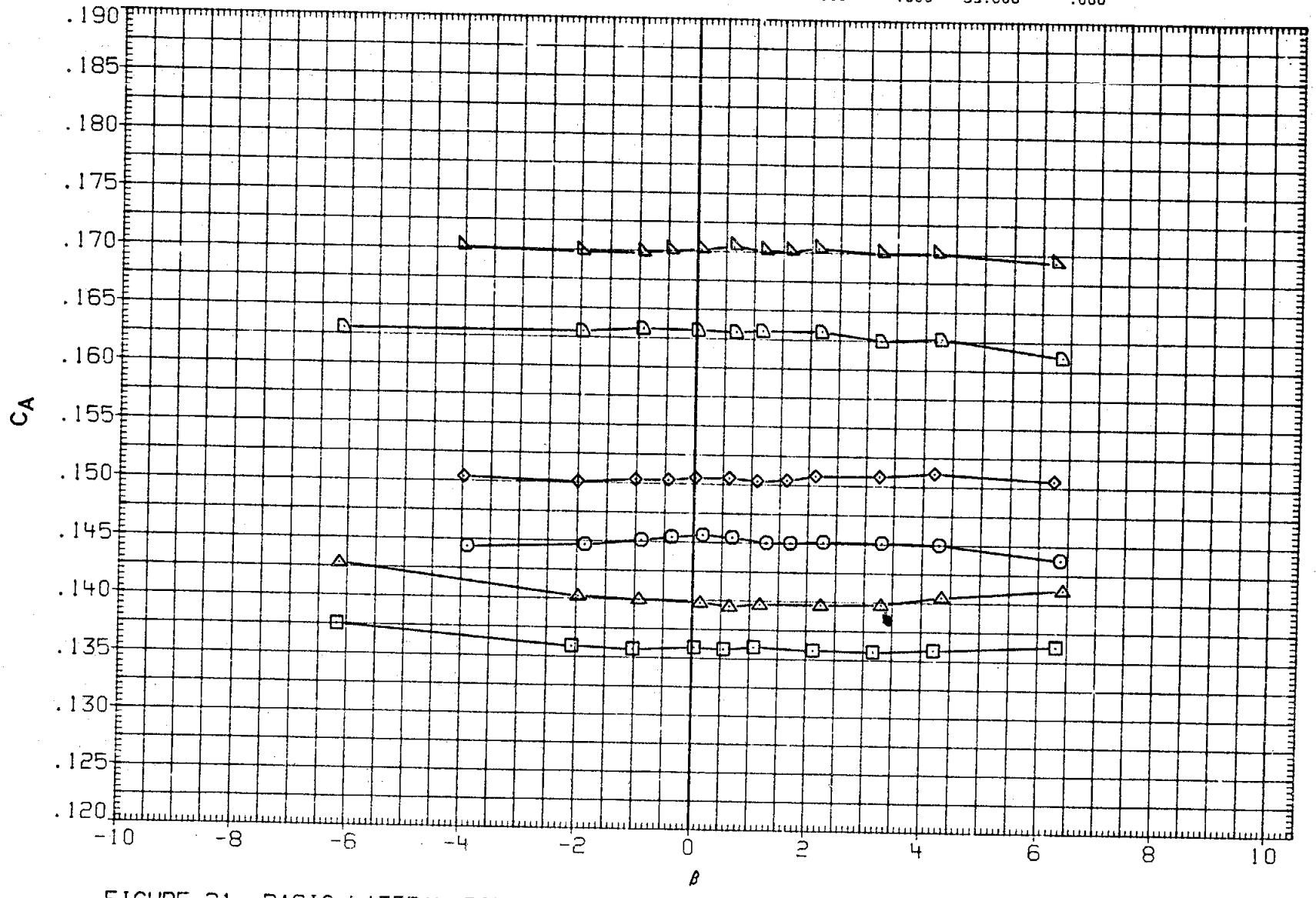

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(L)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	D	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.000	.000	

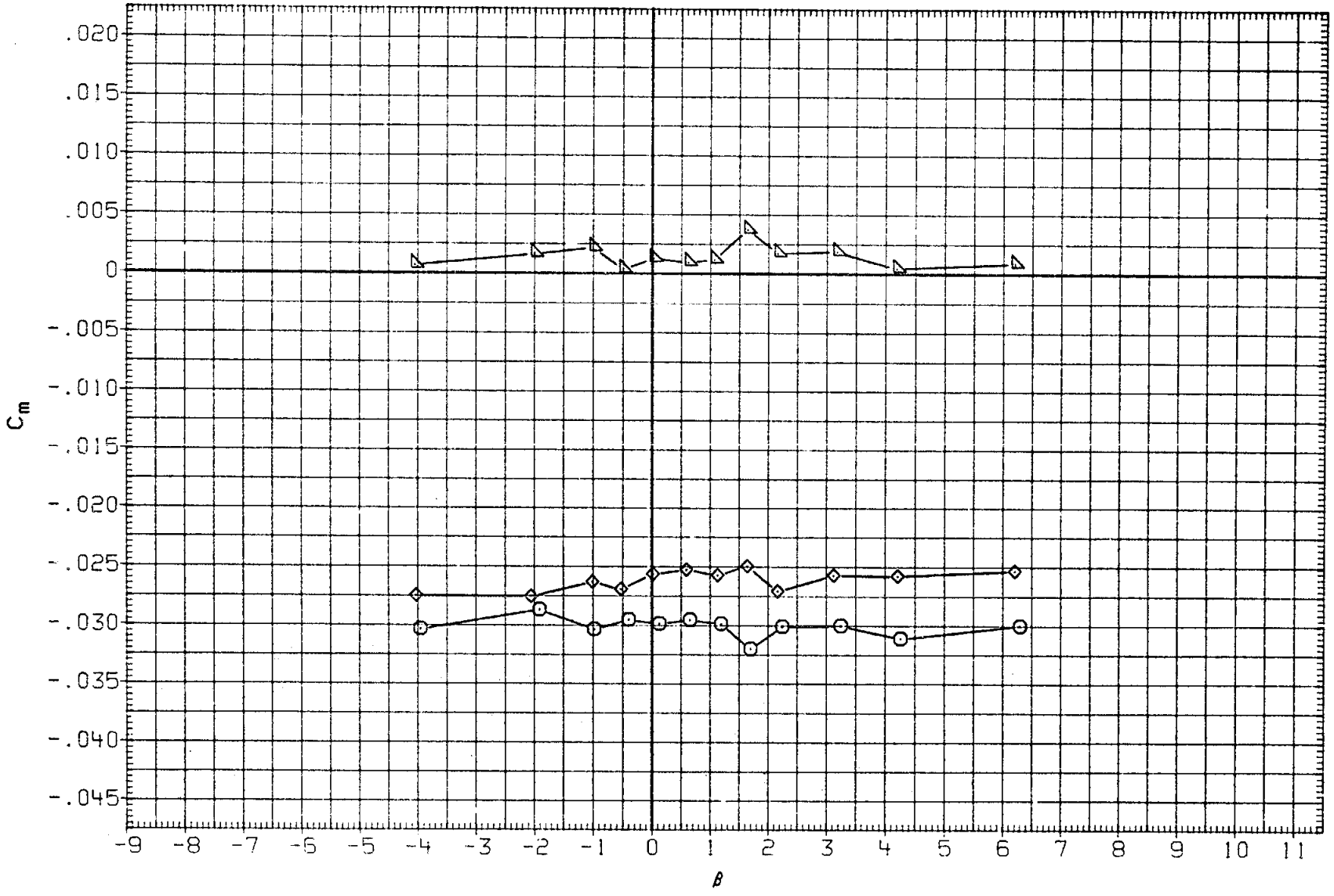

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(M)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F016	△	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	◺	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.000	.000	

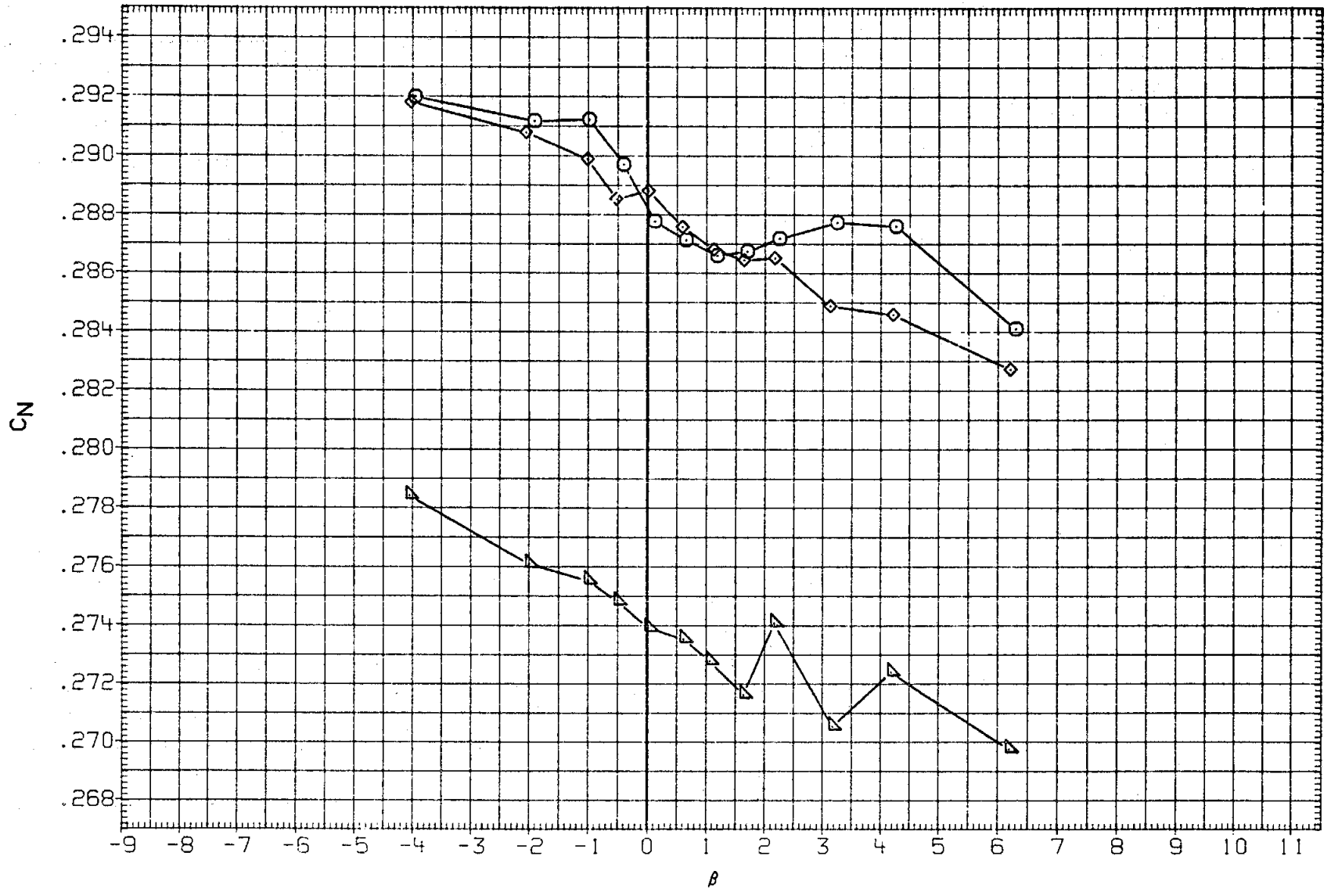

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(M)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION
RK0031	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F073	□	DATA NOT AVAILABLE
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F018	△	DATA NOT AVAILABLE
RK0032	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F0A1	⬠	DATA NOT AVAILABLE

ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
5.000	.000	.000	.000	.000	.000	90.000
5.000	.000	.000	.000	.000	.000	
5.000	.000	.000	.000	25.500	-.030	90.000
5.000	.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	55.570	.060	90.000
5.000	.000	.000	.000	55.000	.000	

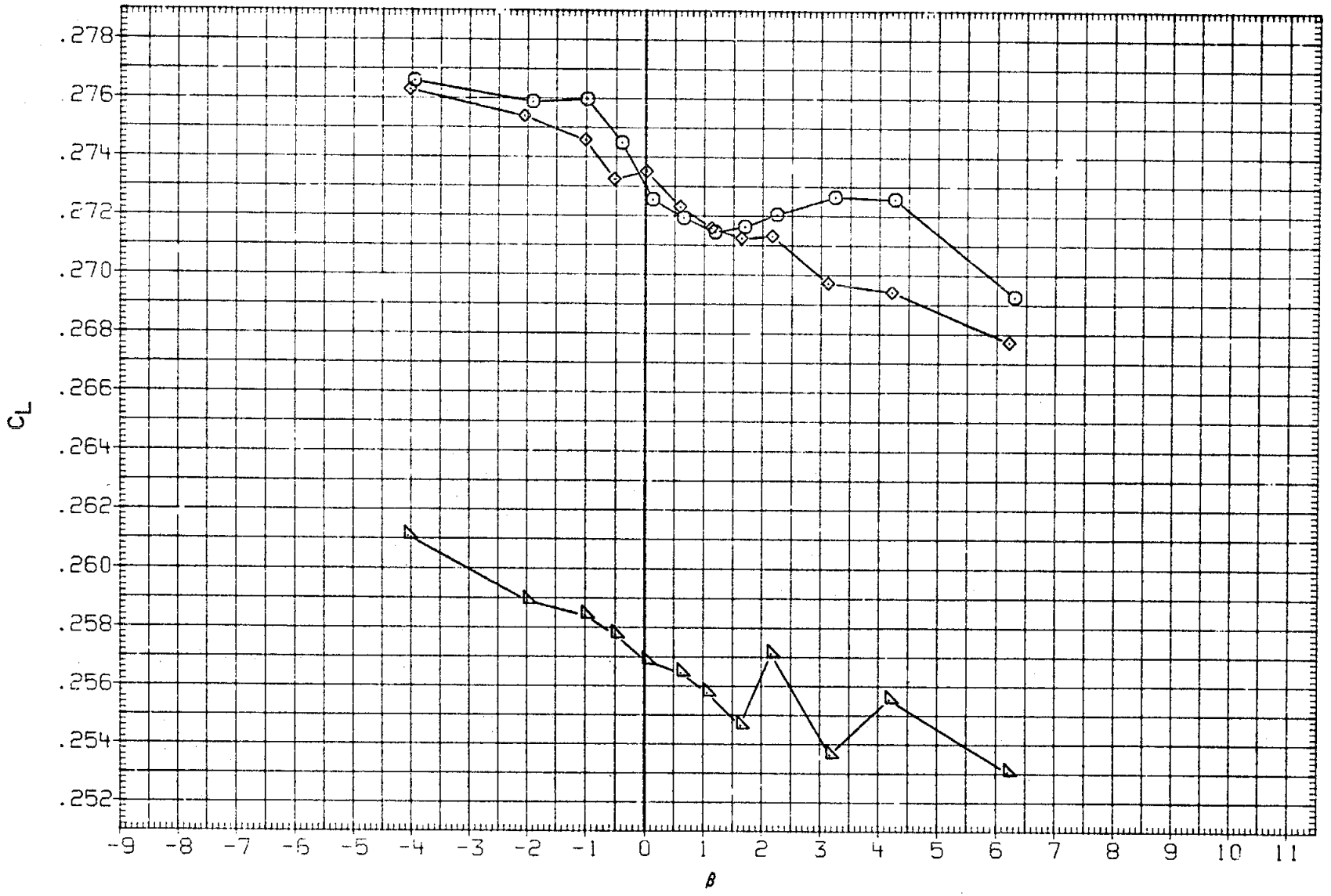

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(M)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	LARC 16FT TWT 325(0A270B) 105-0 ORB.	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	D	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.000	.000	

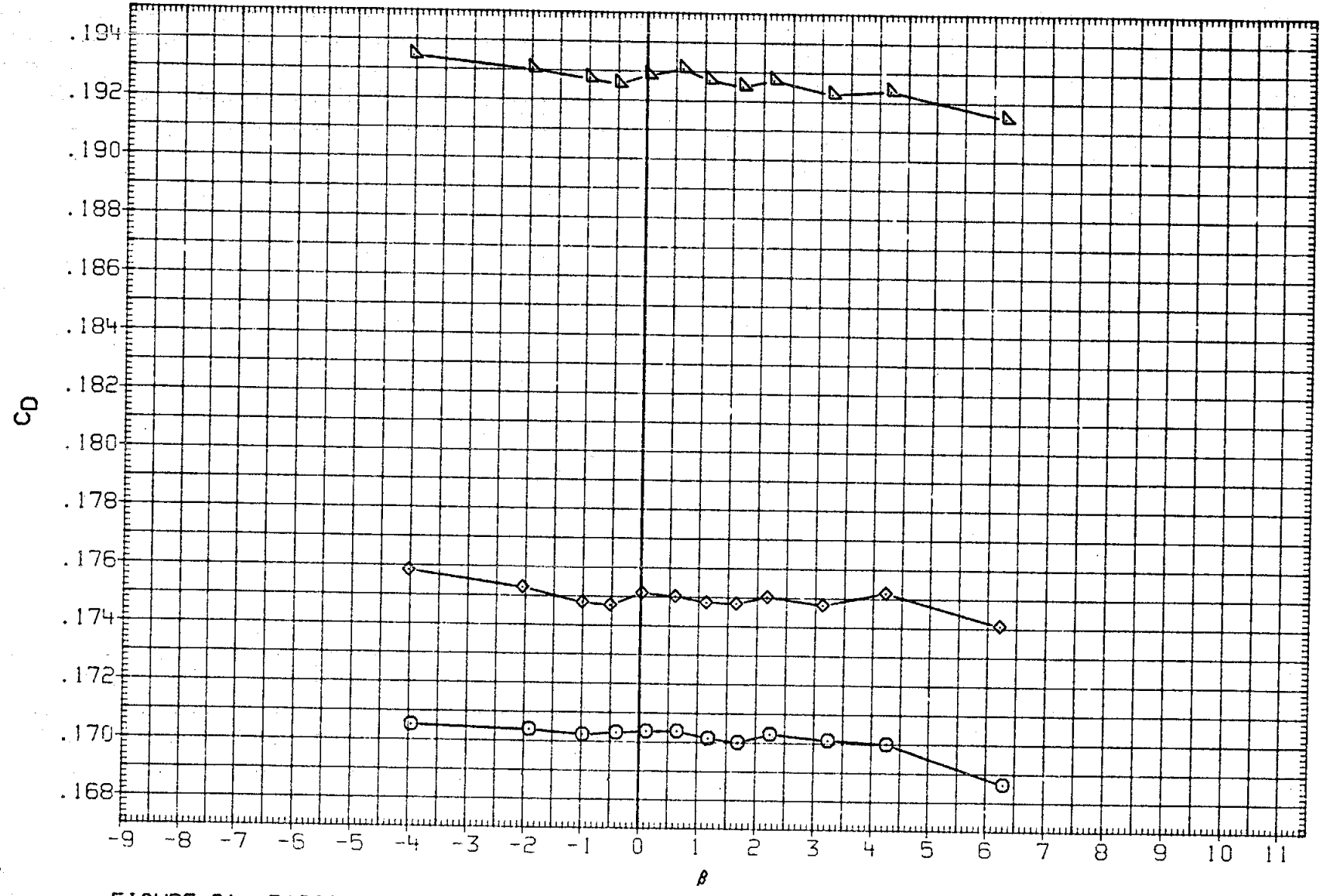

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(M)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	D	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.000	.000	

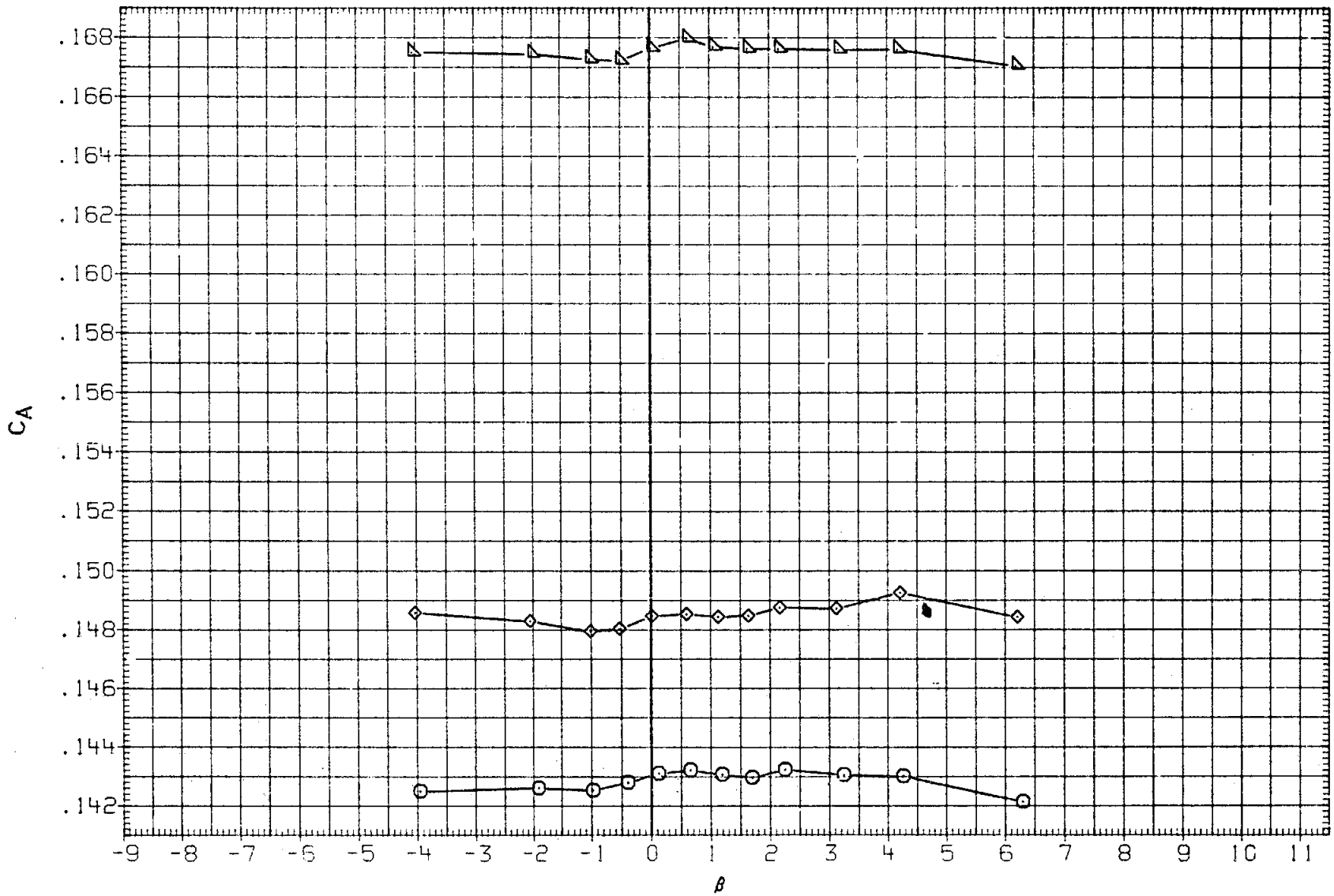

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(M)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RK0032	▷	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	D	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	55.000	.000	

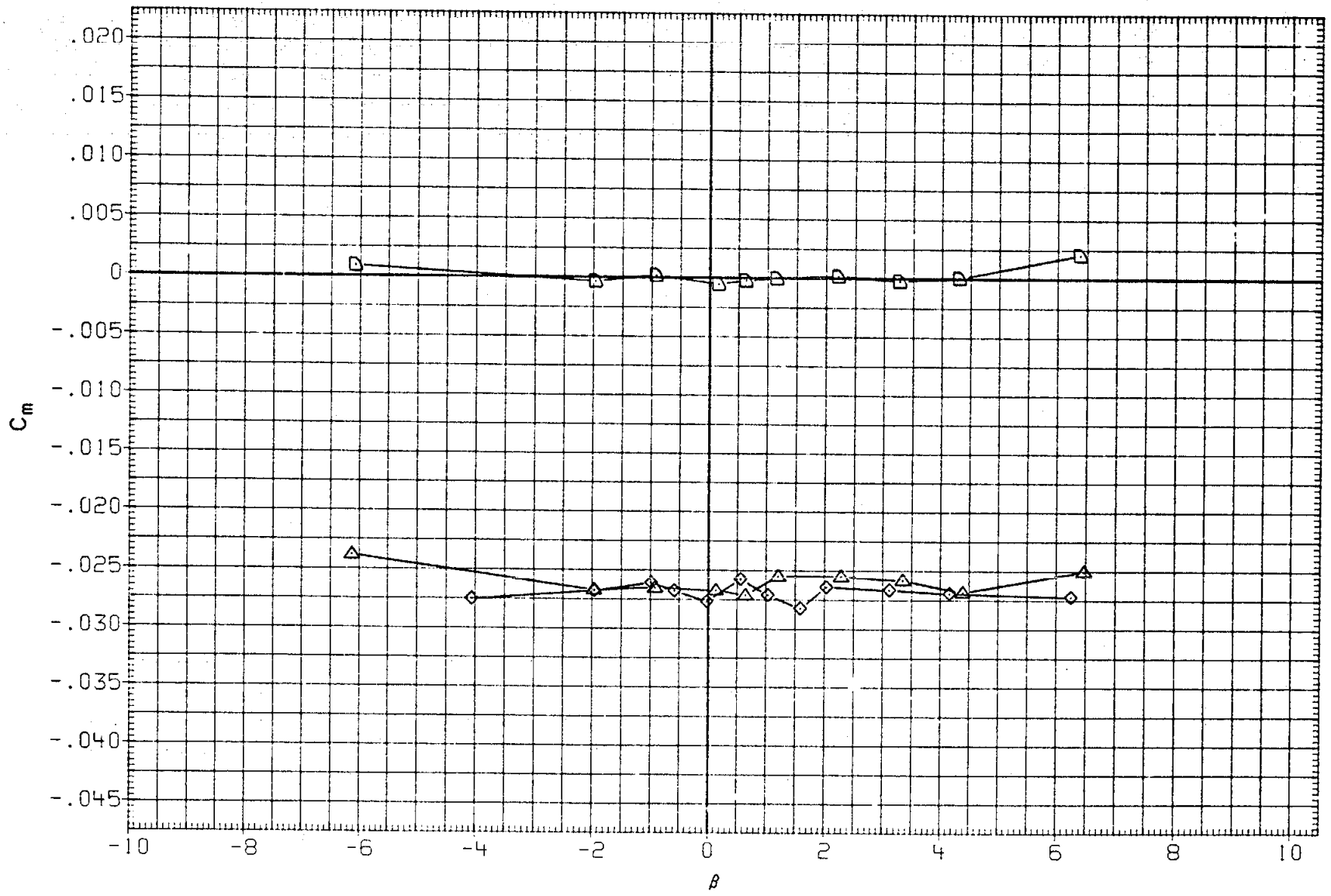

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(N)MACH = 1.29

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	◺	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	55.000	.000	

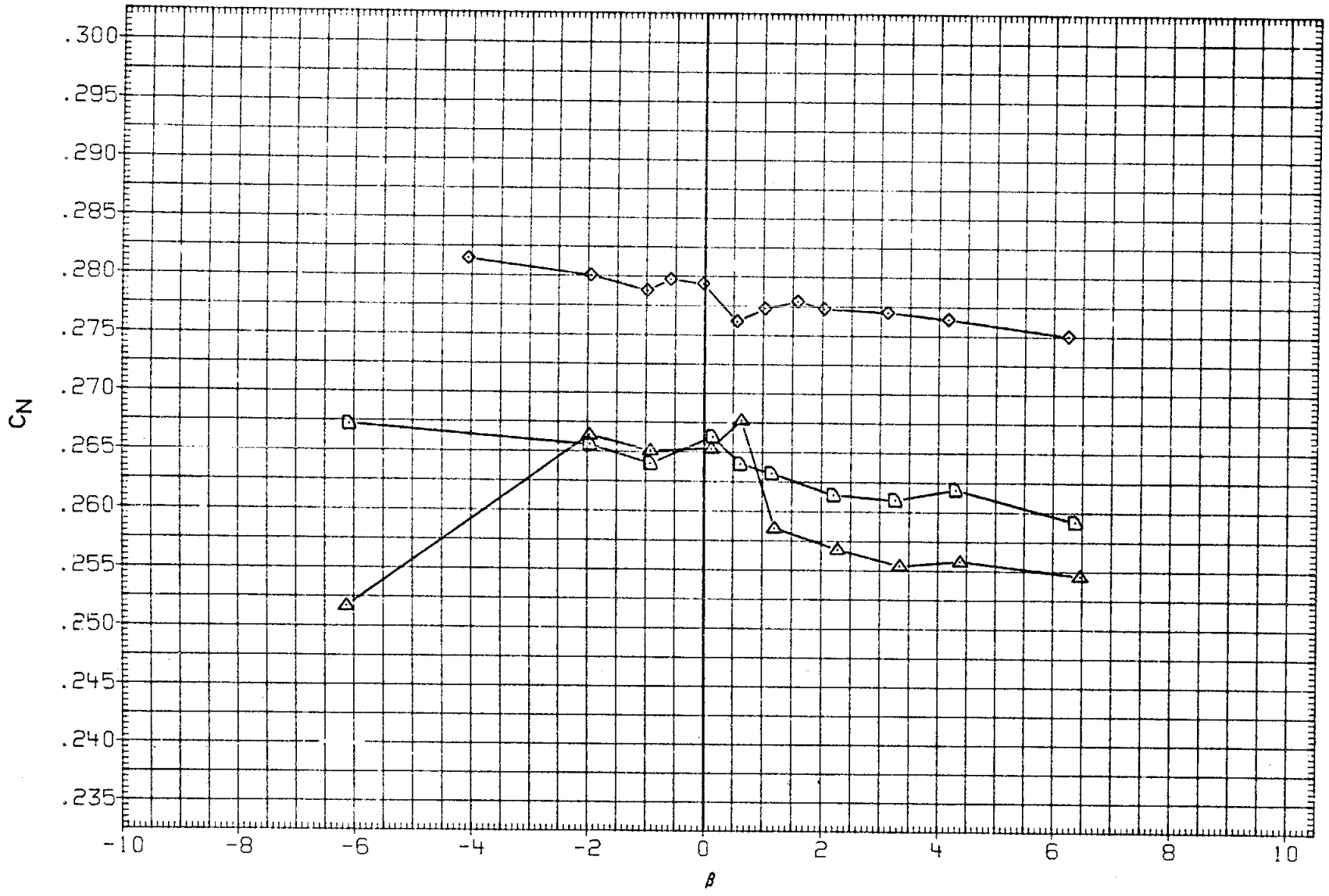

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(N)MACH = 1.29

DATA SET	SYMBOL	CONFIGURATION
RK0031	○	DATA NOT AVAILABLE
R2F073	□	DATA NOT AVAILABLE
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F018	△	AMES 118-1-11 OA145A 01
RK0032	◺	DATA NOT AVAILABLE
R2F0A1	D	AMES 118-1-11 OA145A 01

ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
5.000	.000	.000	.000	.000	.000	90.000
5.000	.000	.000	.000	.000	.000	
5.000	.000	.000	.000	25.500	-.030	90.000
5.000	.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	55.570	.060	90.000
5.000	.000	.000	.000	55.000	.000	

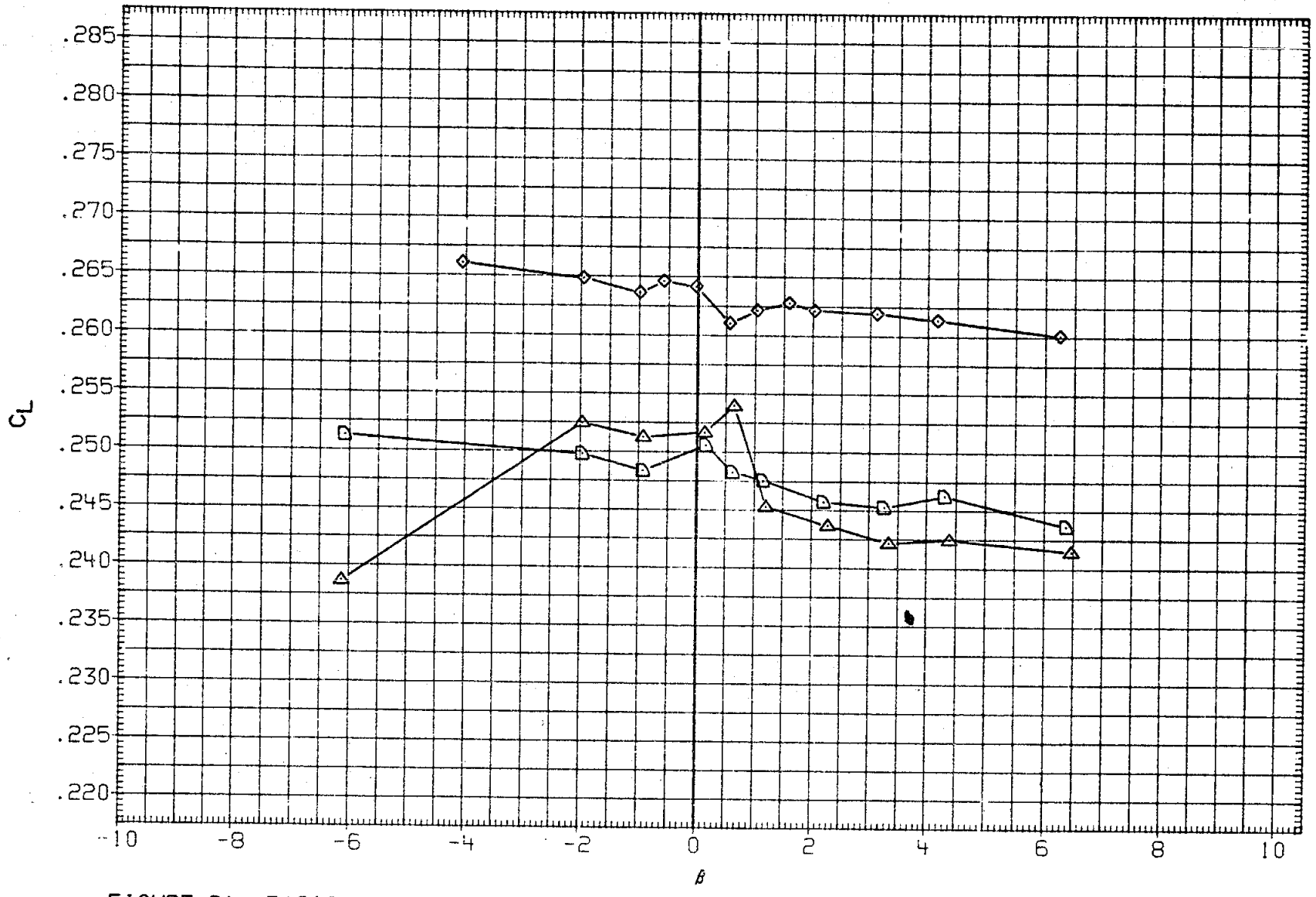

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(N)MACH = 1.29

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	◗	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	55.000	.000	

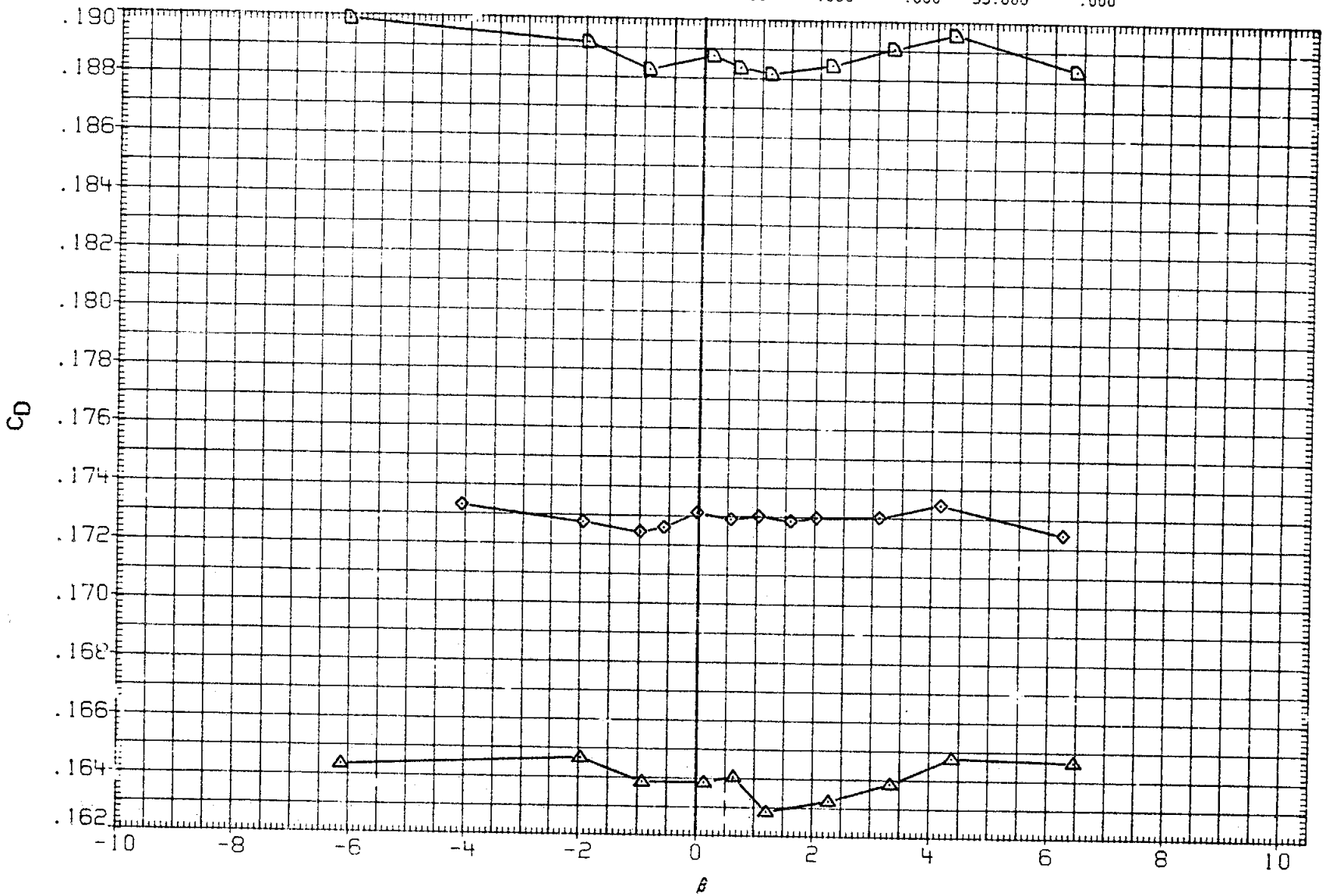

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(N)MACH = 1.29

DATA SET	SYMBOL	CONFIGURATION
RK0031	○	DATA NOT AVAILABLE
R2F073	□	DATA NOT AVAILABLE
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F018	△	AMES 118-1-11 OA145A 01
RK0032	◺	DATA NOT AVAILABLE
R2F0A1	D	AMES 118-1-11 OA145A 01

ALPHA	ELEVON	AILRON	SDFLAP	SPDBRK	RUDDER	PHI
5.000	.000	.000	.000	.000	.000	90.000
5.000	.000	.000	.000	.000	.000	
5.000	.000	.000	.000	25.500	-.030	90.000
5.000	.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	55.570	.060	90.000
5.000	.000	.000	.000	55.000	.000	

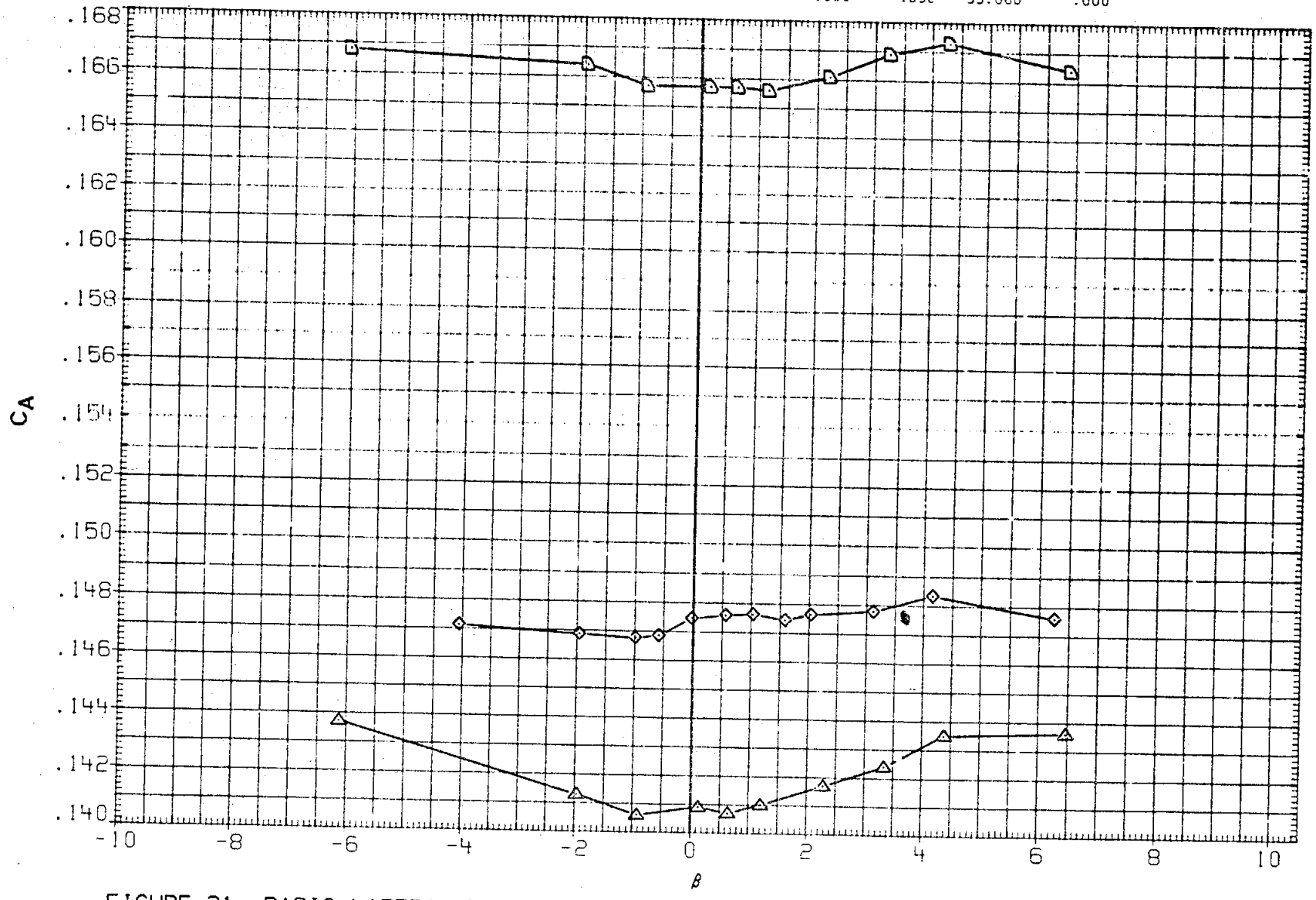

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(N)MACH = 1.29

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	.000	.000	
RK0027	◇	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	◺	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	55.000	.000	

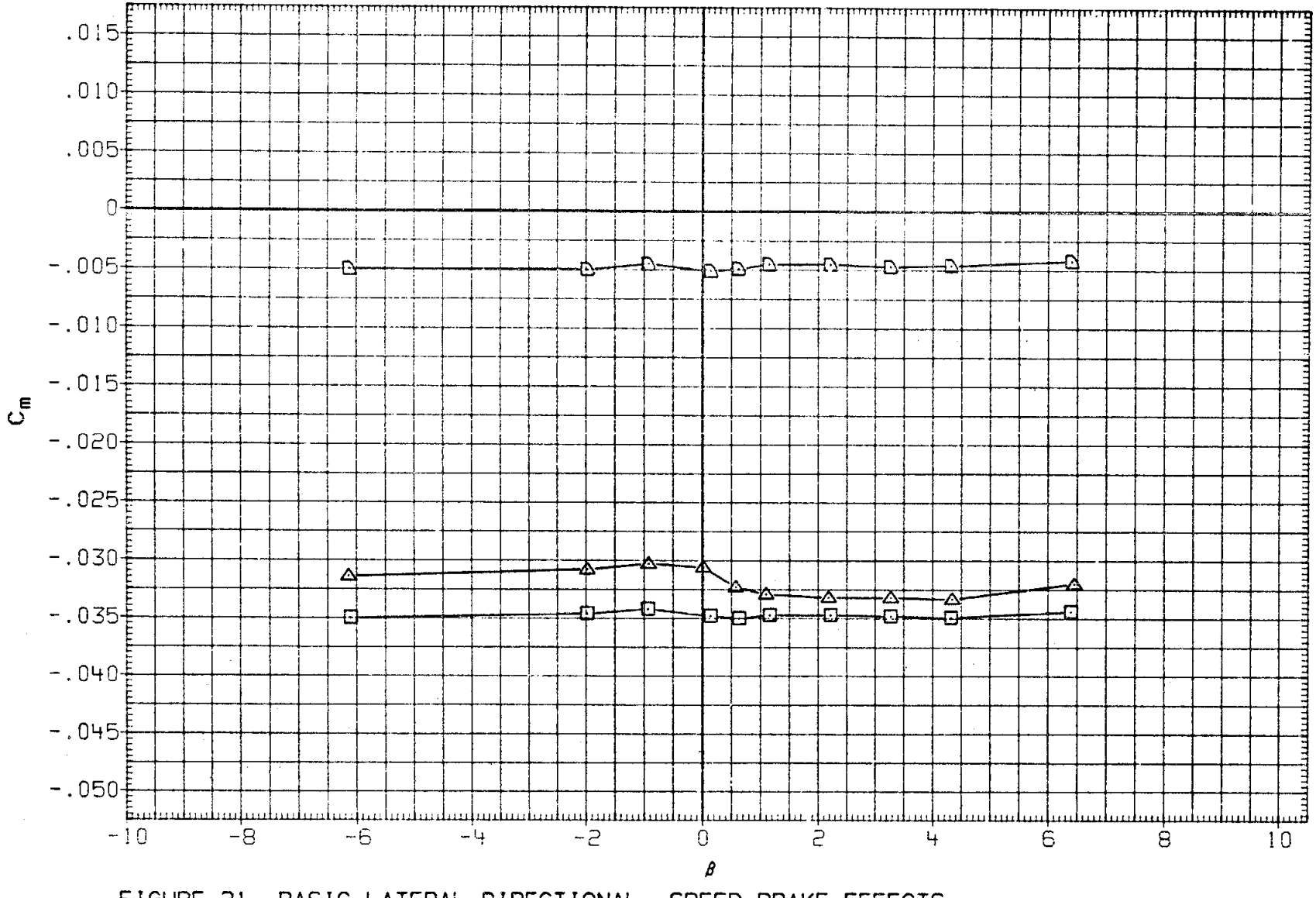

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(O)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION
RK0031	○	DATA NOT AVAILABLE
R2F073	□	AMES 118-1-11 OA145A 01
RK0027	◇	DATA NOT AVAILABLE
R2F018	△	AMES 118-1-11 OA145A 01
RK0032	◺	DATA NOT AVAILABLE
R2F0A1	◻	AMES 118-1-11 OA145A 01

ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
5.000	.000	.000	.000	.000	.000	90.000
5.000	.000	.000	.000	.000	.000	
5.000	.000	.000	.000	25.500	-.030	90.000
5.000	.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	55.570	.060	90.000
5.000	.000	.000	.000	55.000	.000	

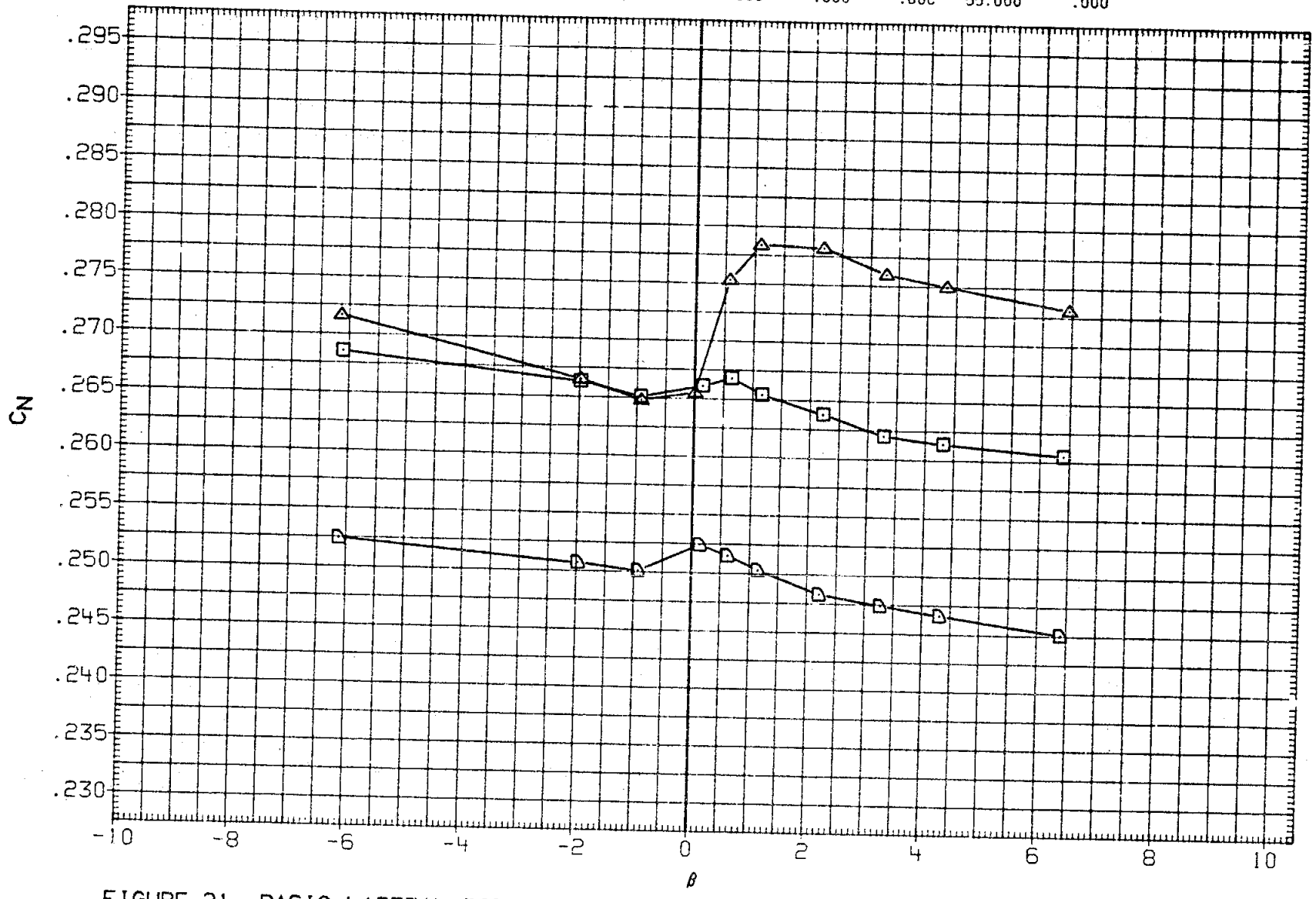

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(O)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	.000	.000	
RK0027	◇	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	◻	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	55.000	.000	

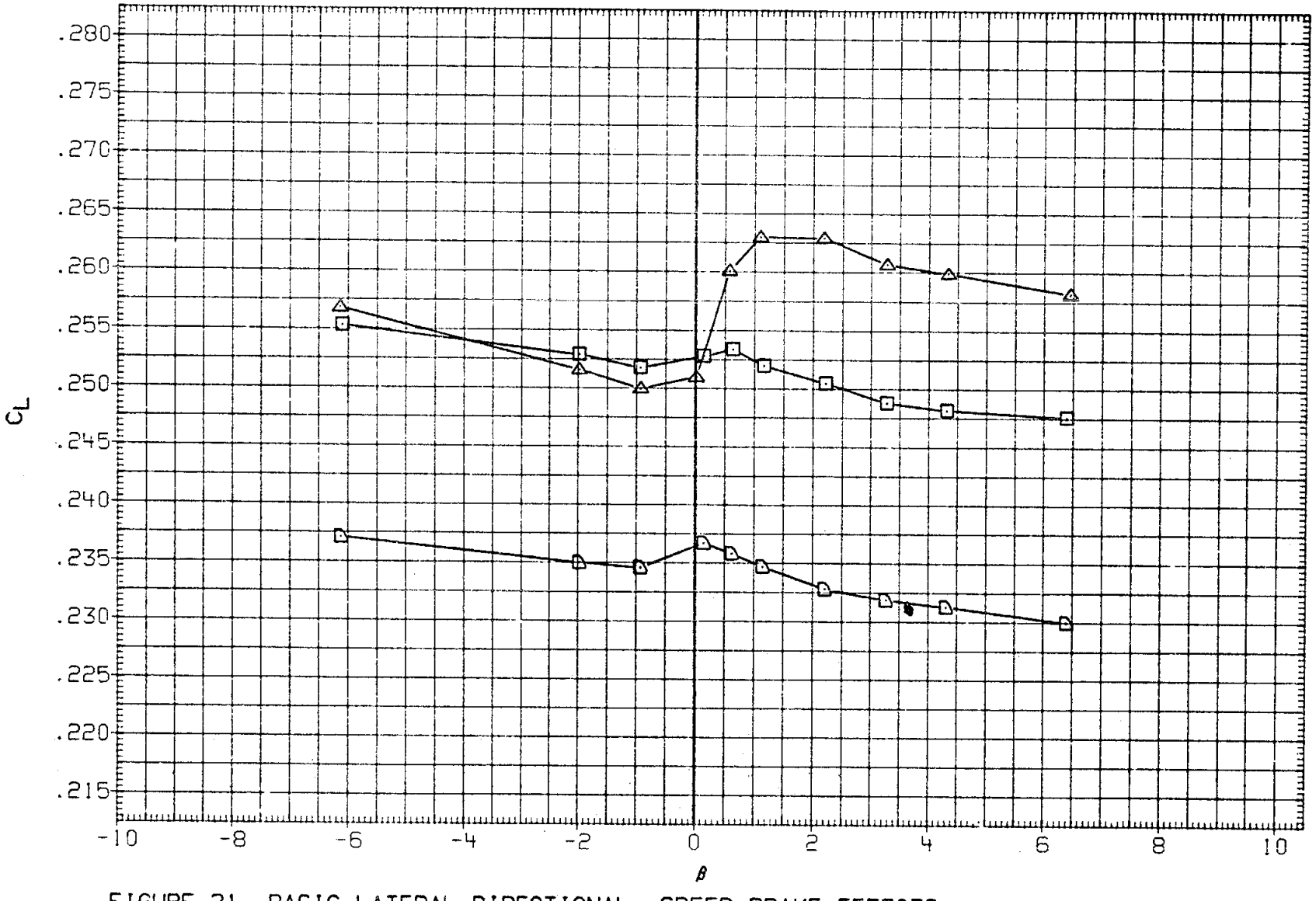

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(O)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION
RK0031	○	DATA NOT AVAILABLE
R2F073	□	AMES 118-1-11 0A145A 01
RK0027	◇	DATA NOT AVAILABLE
R2F018	△	AMES 118-1-11 0A145A 01
RK0032	◺	DATA NOT AVAILABLE
R2F0A1	◻	AMES 118-1-11 0A145A 01

ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
5.000	.000	.000	.000	.000	.000	90.000
5.000	.000	.000	.000	.000	.000	
5.000	.000	.000	.000	25.500	-.030	90.000
5.000	.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	55.570	.060	90.000
5.000	.000	.000	.000	55.000	.000	

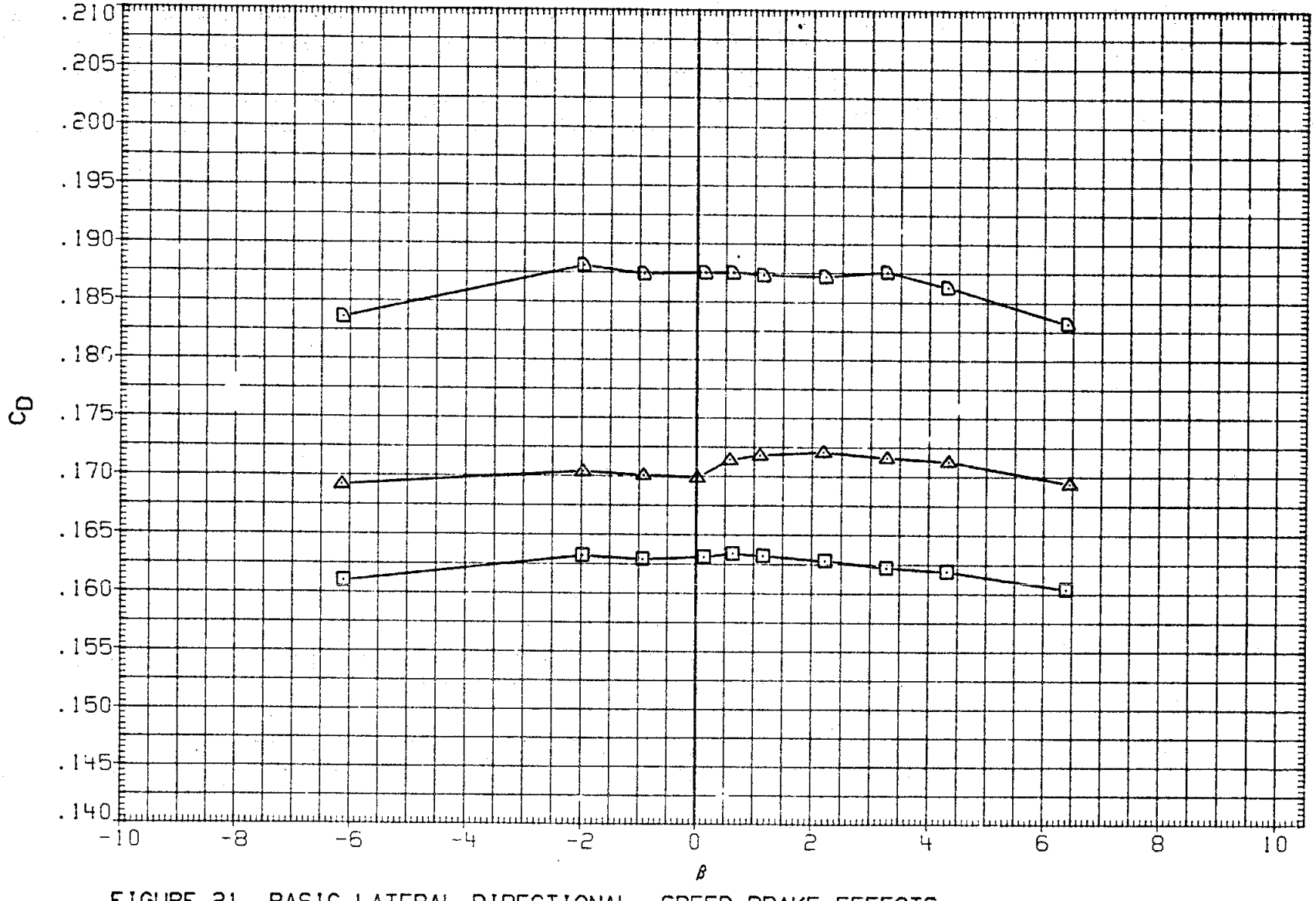

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(O)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0031	○	DATA NOT AVAILABLE	5.000	.000	.000	.000	.000	.000	90.000
R2F073	□	AMES 118-1-11 0A145A 01	5.000	.000	.000	.000	.000	.000	
RK0027	◇	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	AMES 118-1-11 0A145A 01	5.000	.000	.000	.000	25.000	.000	
RK0032	◺	DATA NOT AVAILABLE	5.000	.000	.000	.000	55.570	.060	90.000
R2F0A1	D	AMES 118-1-11 0A145A 01	5.000	.000	.000	.000	55.000	.000	

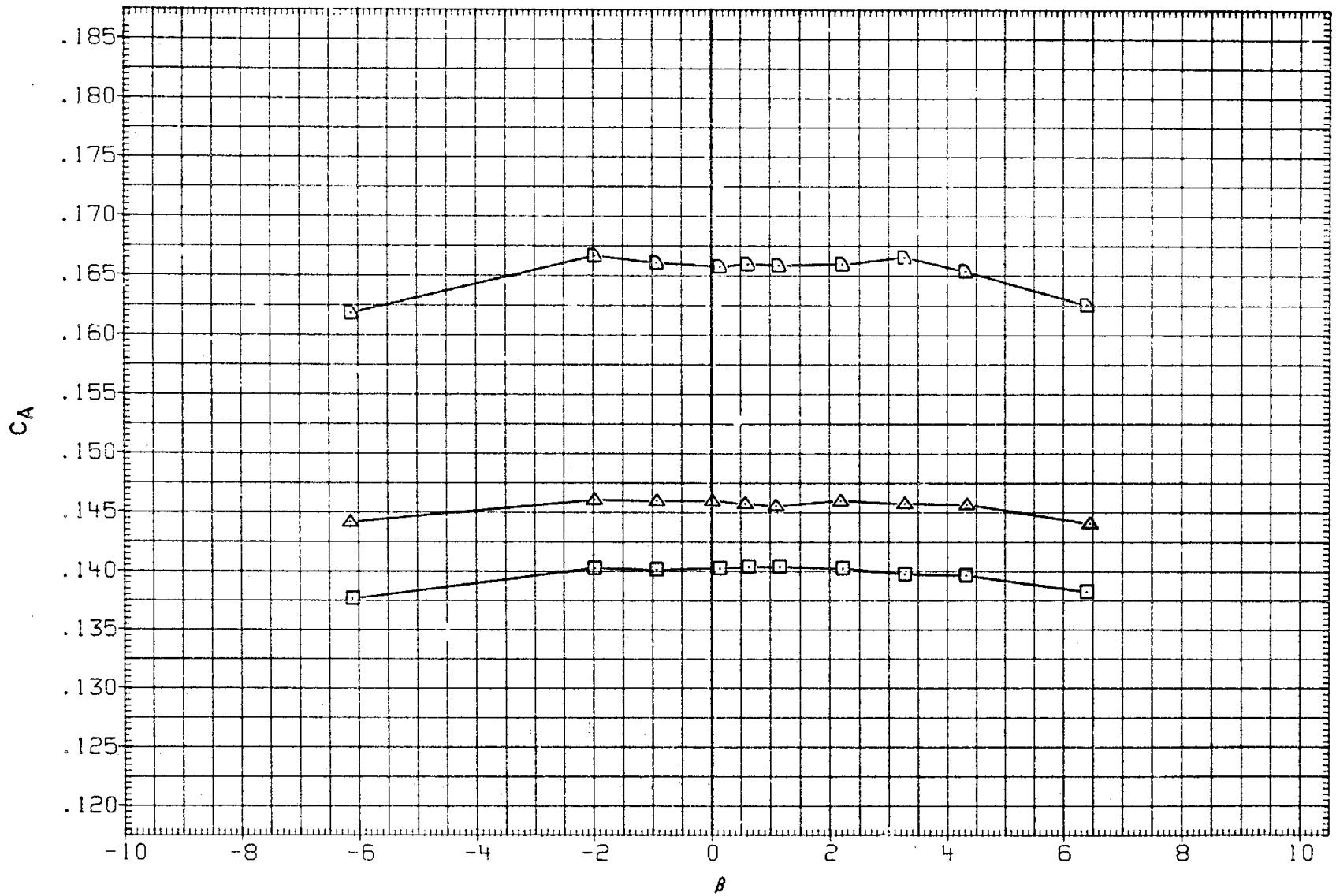

FIGURE 21. BASIC LATERAL-DIRECTIONAL, SPEED BRAKE EFFECTS

(O)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	DATA NOT AVAILABLE	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	.000	.000	
RK0023	◇	DATA NOT AVAILABLE	2.000	.000	.000	.000	.000	.000	.000
R2F071	△	AMES 118-1-11 0A145A 01	2.000	.000	.000	.000	.000	.000	

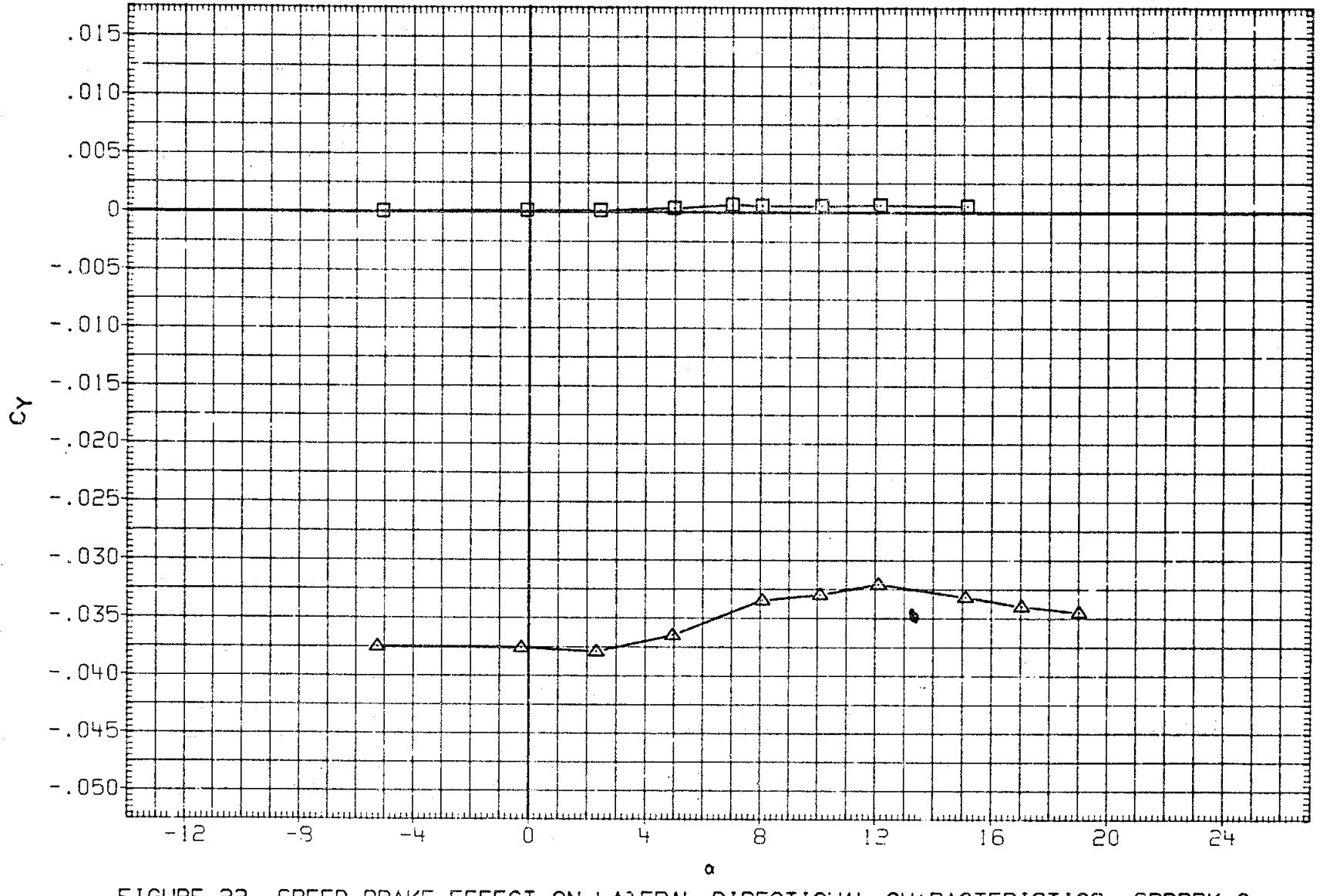

FIGURE 22. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=0

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	DATA NOT AVAILABLE	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	.000	.000	
RK0023	◇	DATA NOT AVAILABLE	2.000	.000	.000	.000	.000	.000	.000
R2F071	△	AMES 118-1-11 OA145A 01	2.000	.000	.000	.000	.000	.000	

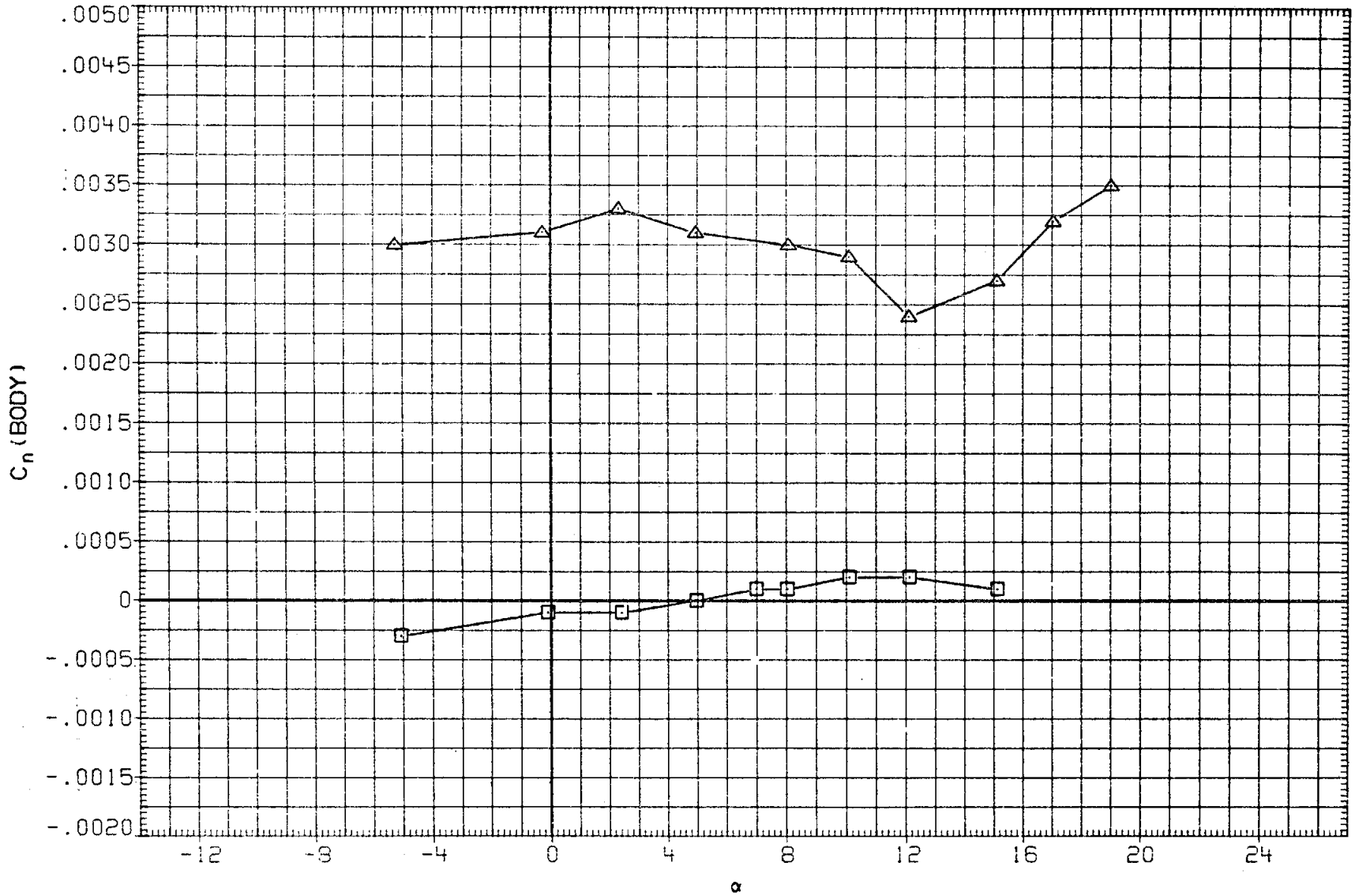

FIGURE 22. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=0

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION
RK0013	○	DATA NOT AVAILABLE
R2F070	□	AMES 118-1-11 OA145A 01
RK0023	◇	DATA NOT AVAILABLE
R2F071	△	AMES 118-1-11 OA145A 01

BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
.000	.000	.000	.000	.000	-.030	.000
.000	.000	.000	.000	.000	.000	
2.000	.000	.000	.000	.000	.000	.000
2.000	.000	.000	.000	.000	.000	

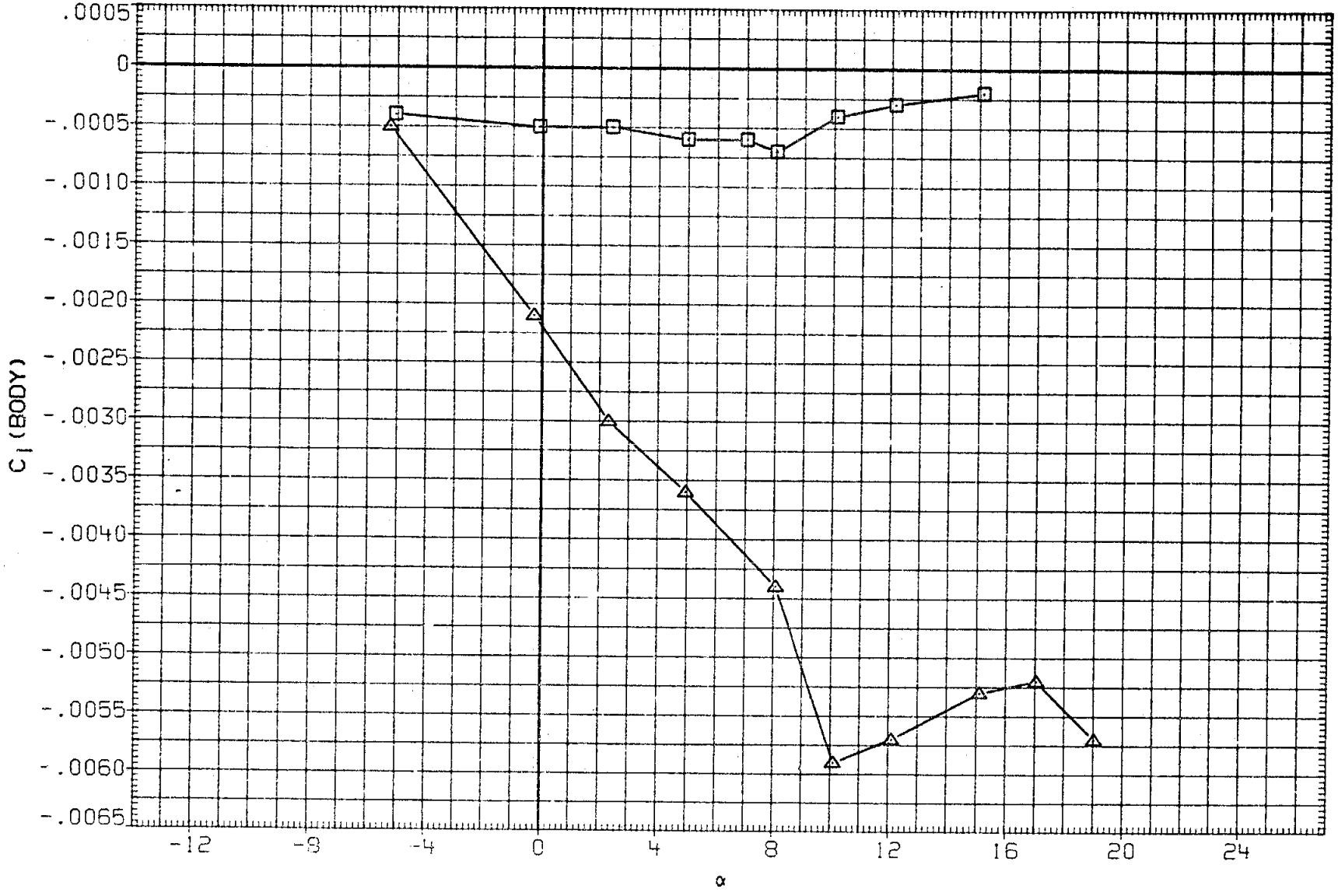

FIGURE 22. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=0

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION
RK0013	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.
R2F070	□	AMES 118-1-11 0A145A 01
RK0023	◇	DATA NOT AVAILABLE
R2F071	△	AMES 118-1-11 0A145A 01

BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
.000	.000	.000	.000	.000	-.030	.000
.000	.000	.000	.000	.000	.000	
2.000	.000	.000	.000	.000	.000	.000
2.000	.000	.000	.000	.000	.000	

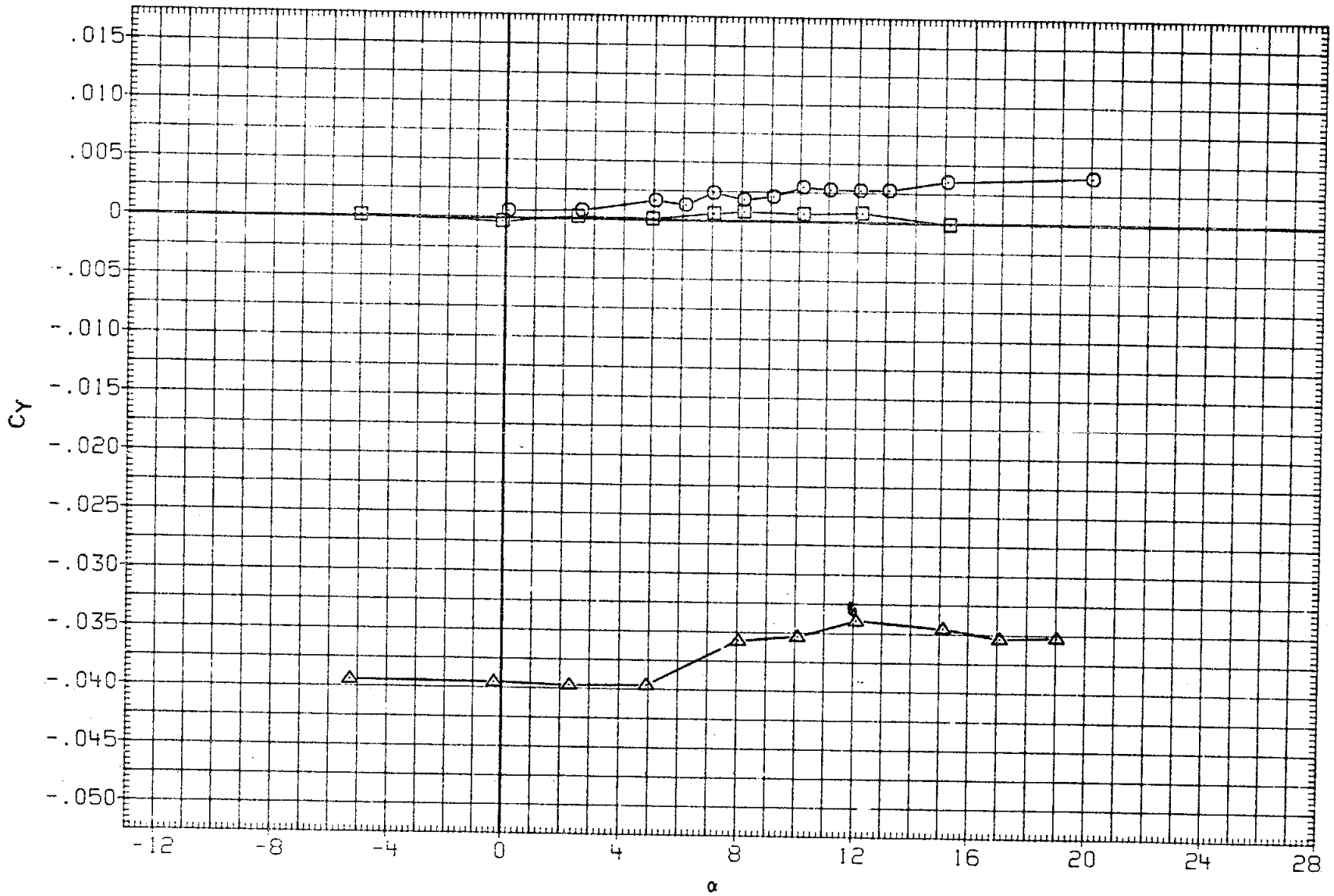

FIGURE 22. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=0

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	.000	.000	
RK0023	◇	DATA NOT AVAILABLE	2.000	.000	.000	.000	.000	.000	.000
R2F071	△	AMES 118-1-11 0A145A 01	2.000	.000	.000	.000	.000	.000	

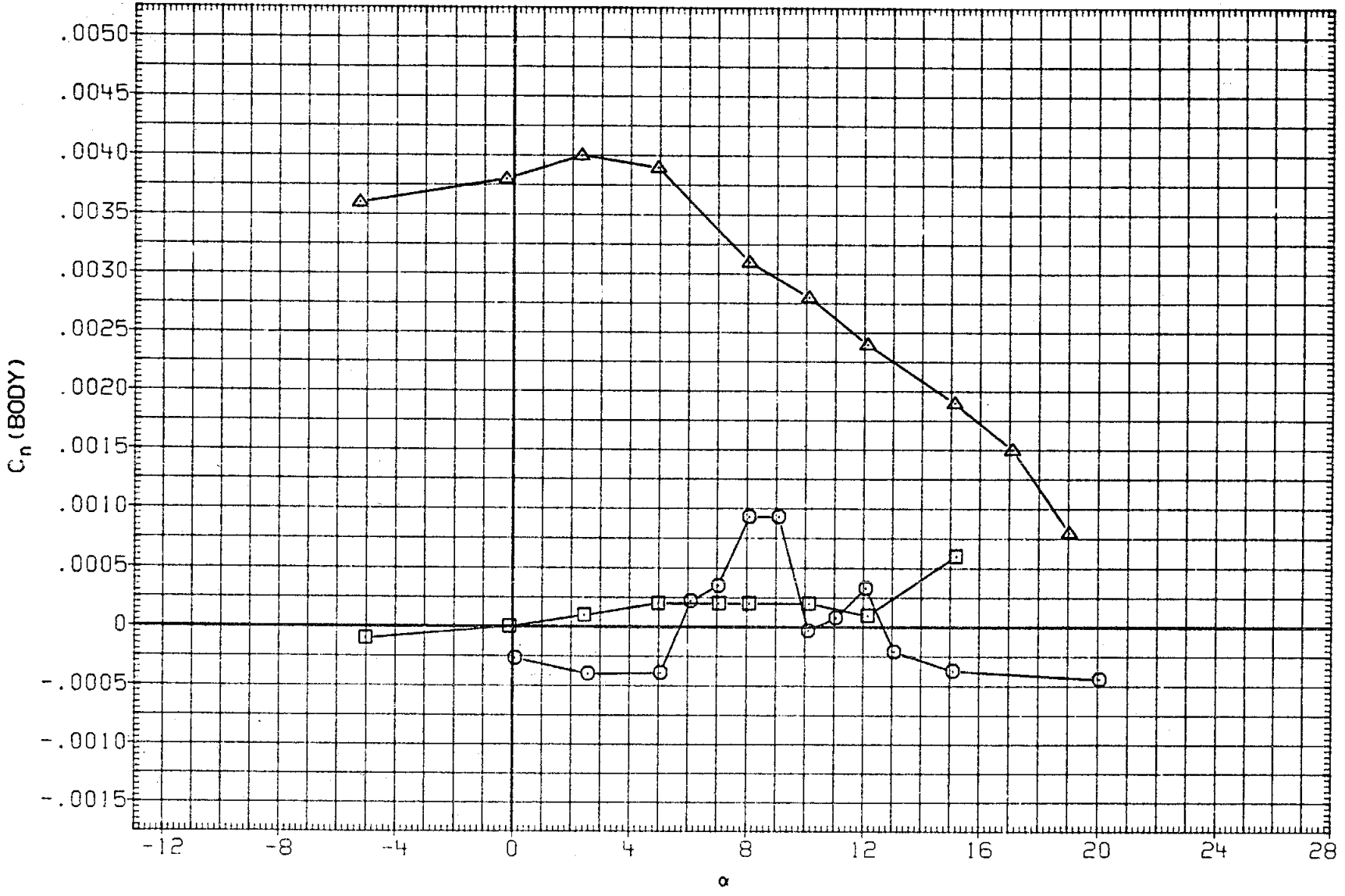

FIGURE 22. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=0

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	.000	.000	
RK0023	◇	DATA NOT AVAILABLE	2.000	.000	.000	.000	.000	.000	.000
R2F071	△	AMES 118-1-11 OA145A 01	2.000	.000	.000	.000	.000	.000	

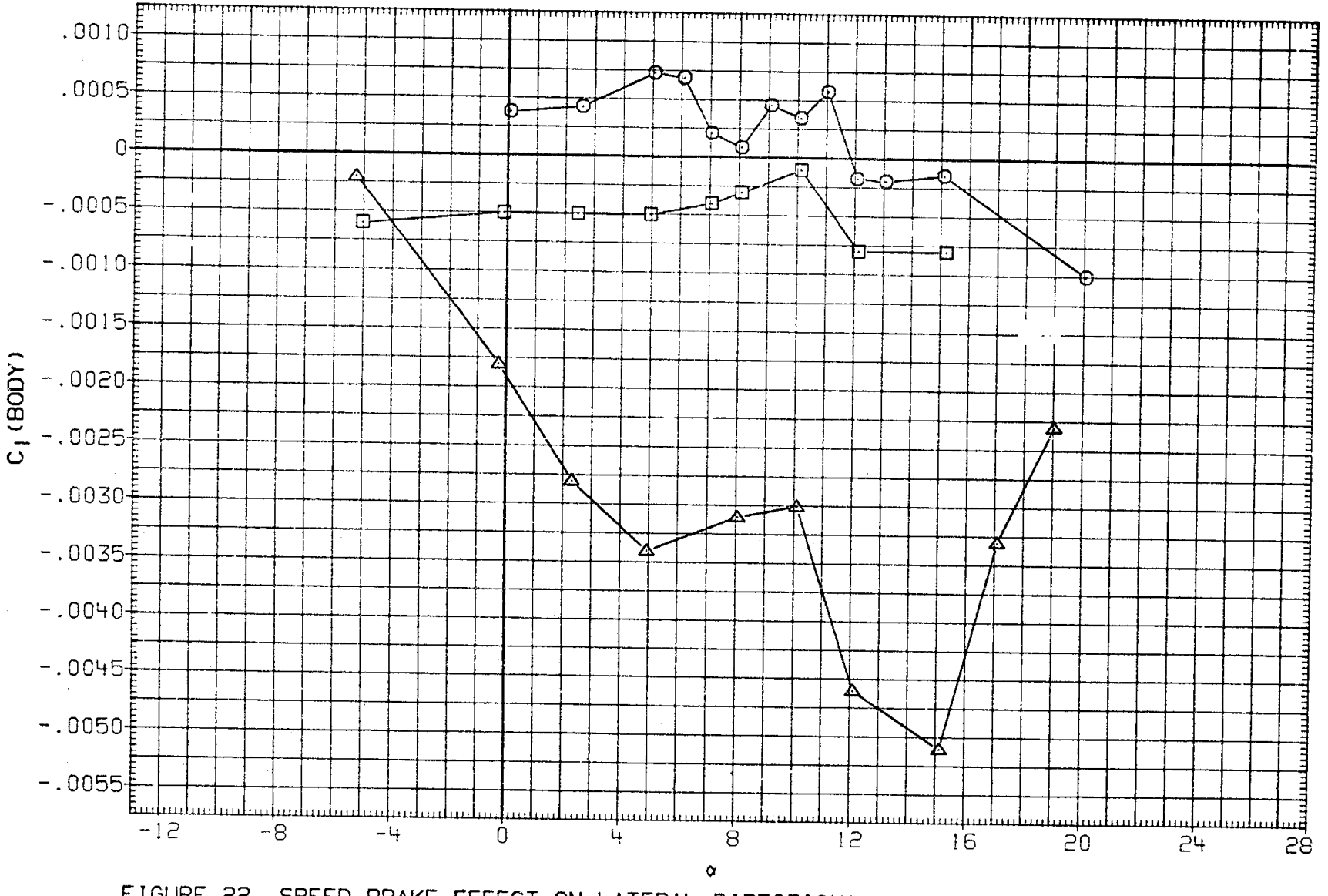

FIGURE 22. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=0

(B) MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	.000	.000	
RK0023	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	2.000	.000	.000	.000	.000	.000	.000
R2F071	△	AMES 118-1-11 OA145A 01	2.000	.000	.000	.000	.000	.000	

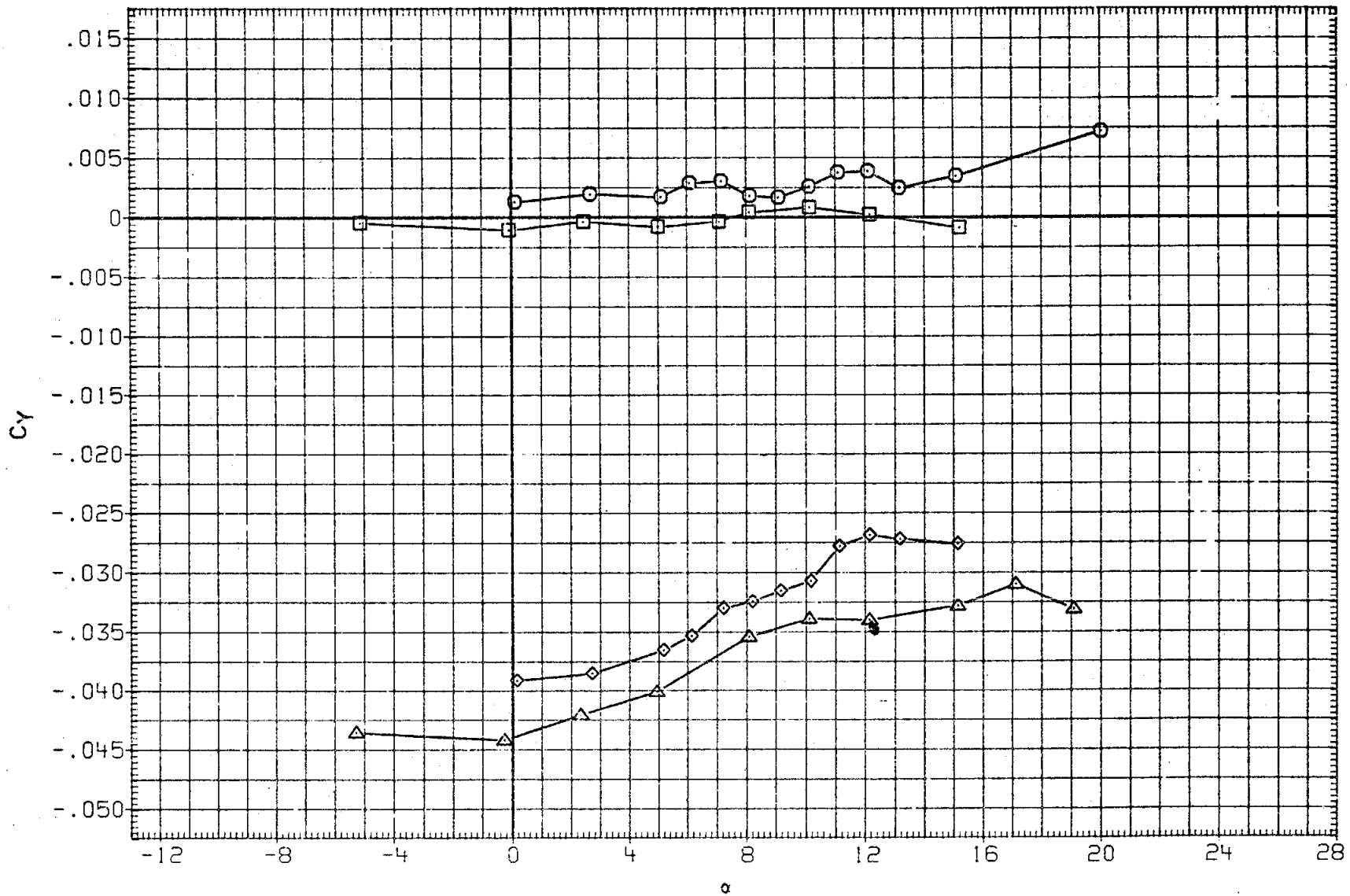

FIGURE 22. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=0

(C) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	.000	.000	
RK0023	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	2.000	.000	.000	.000	.000	.000	.000
R2F071	△	AMES 118-1-11 OA145A 01	2.000	.000	.000	.000	.000	.000	

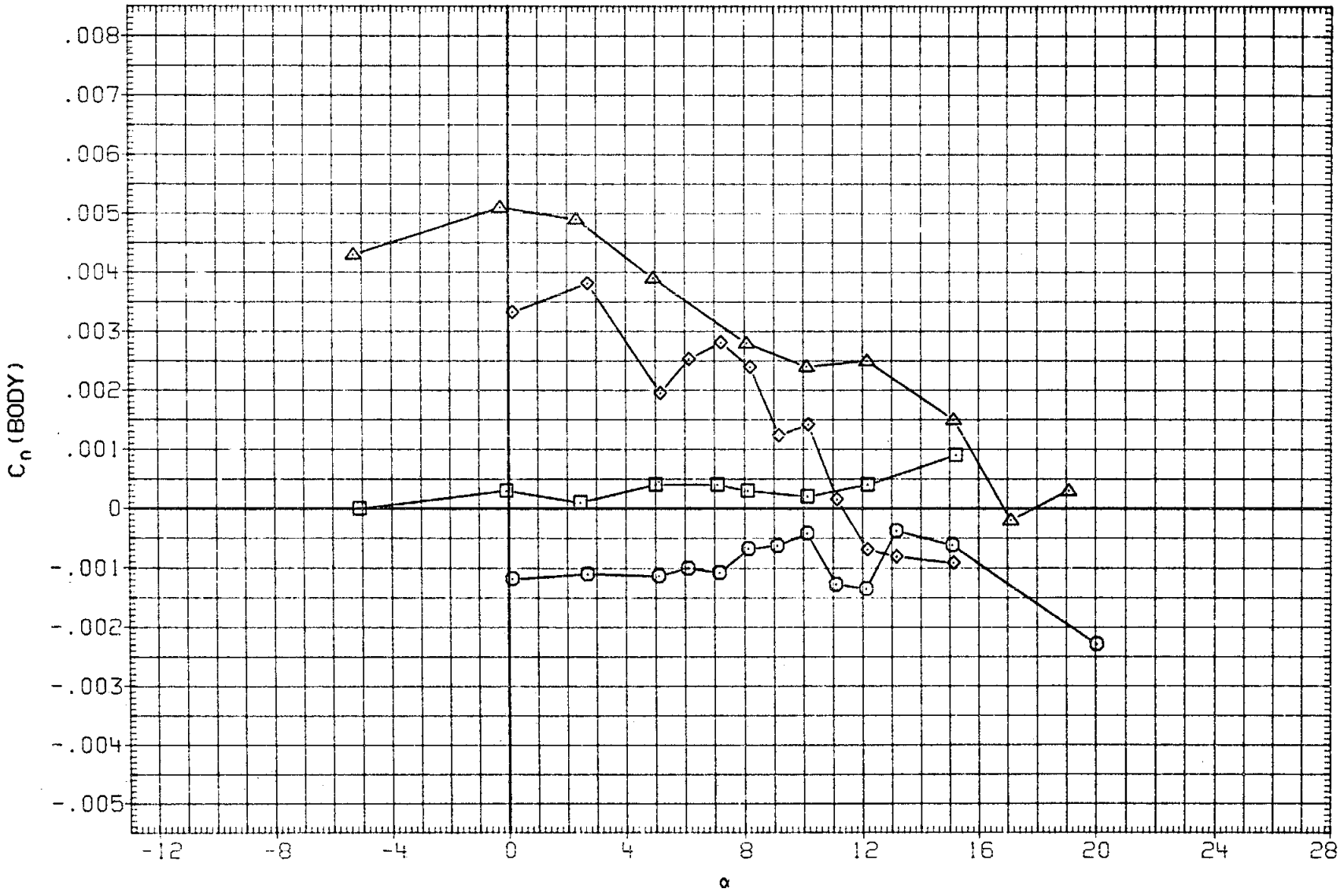

FIGURE 22. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=0

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	.000	.000	
RK0023	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	2.000	.000	.000	.000	.000	.000	.000
R2F071	△	AMES 118-1-11 OA145A 01	2.000	.000	.000	.000	.000	.000	

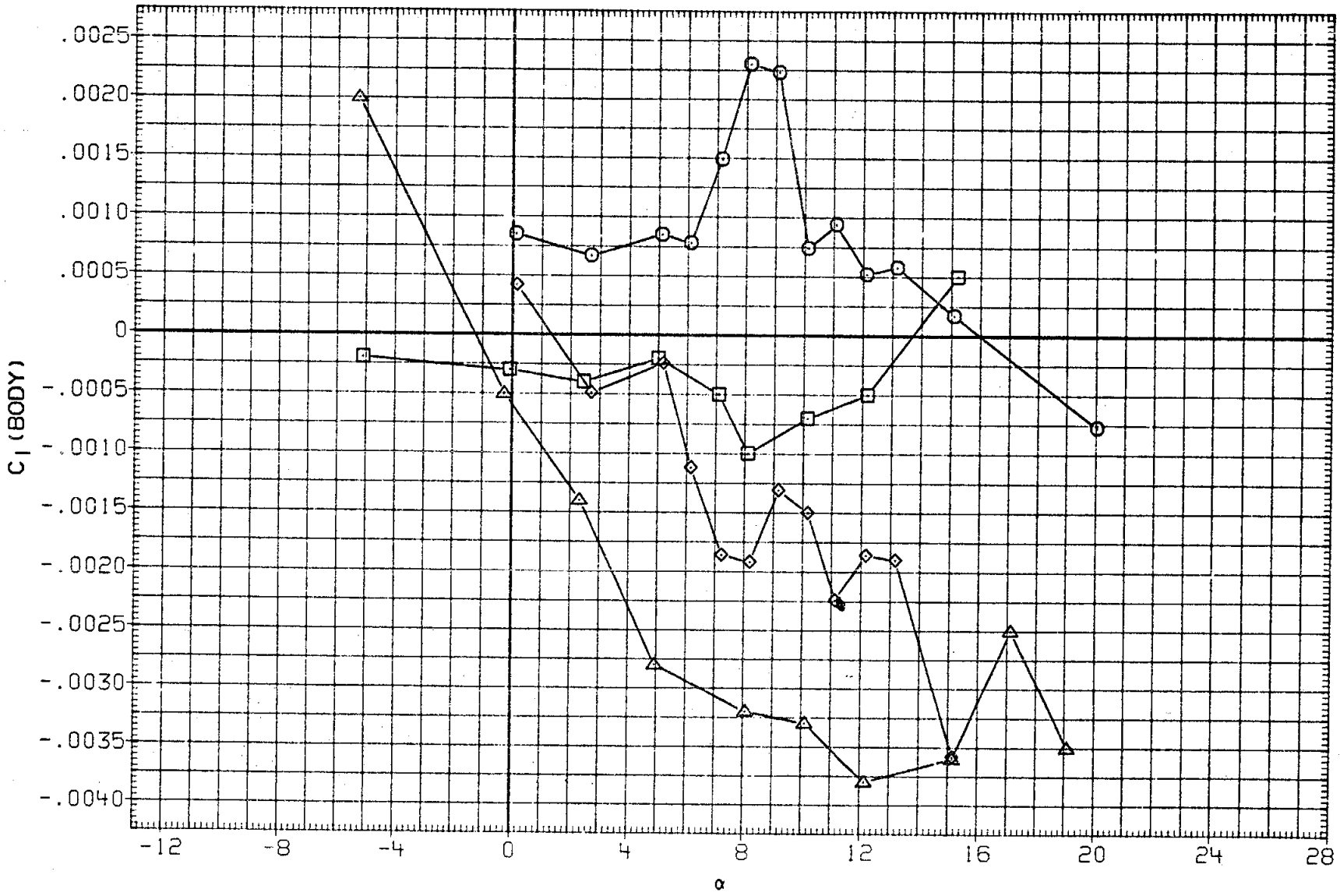

FIGURE 22. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=0

(C) MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	AMES 11B-1-11 0A145A 01	.000	.000	.000	.000	.000	.000	
RK0023	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.	2.000	.000	.000	.000	.000	.000	.000
R2F071	△	AMES 11B-1-11 0A145A 01	2.000	.000	.000	.000	.000	.000	

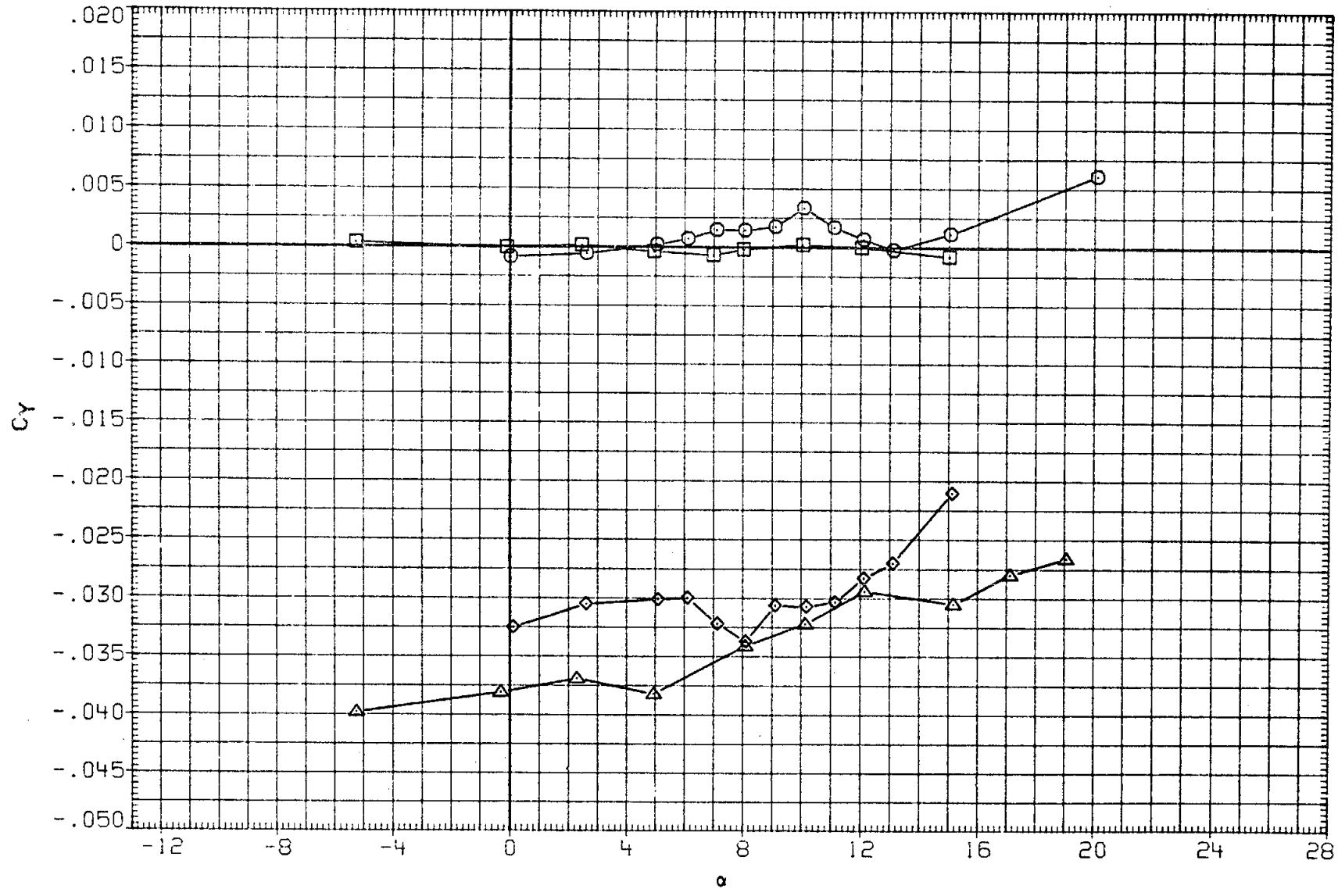

FIGURE 22. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=0

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	.000	.000	
RK0023	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	2.000	.000	.000	.000	.000	.000	.000
R2F071	△	AMES 118-1-11 OA145A 01	2.000	.000	.000	.000	.000	.000	

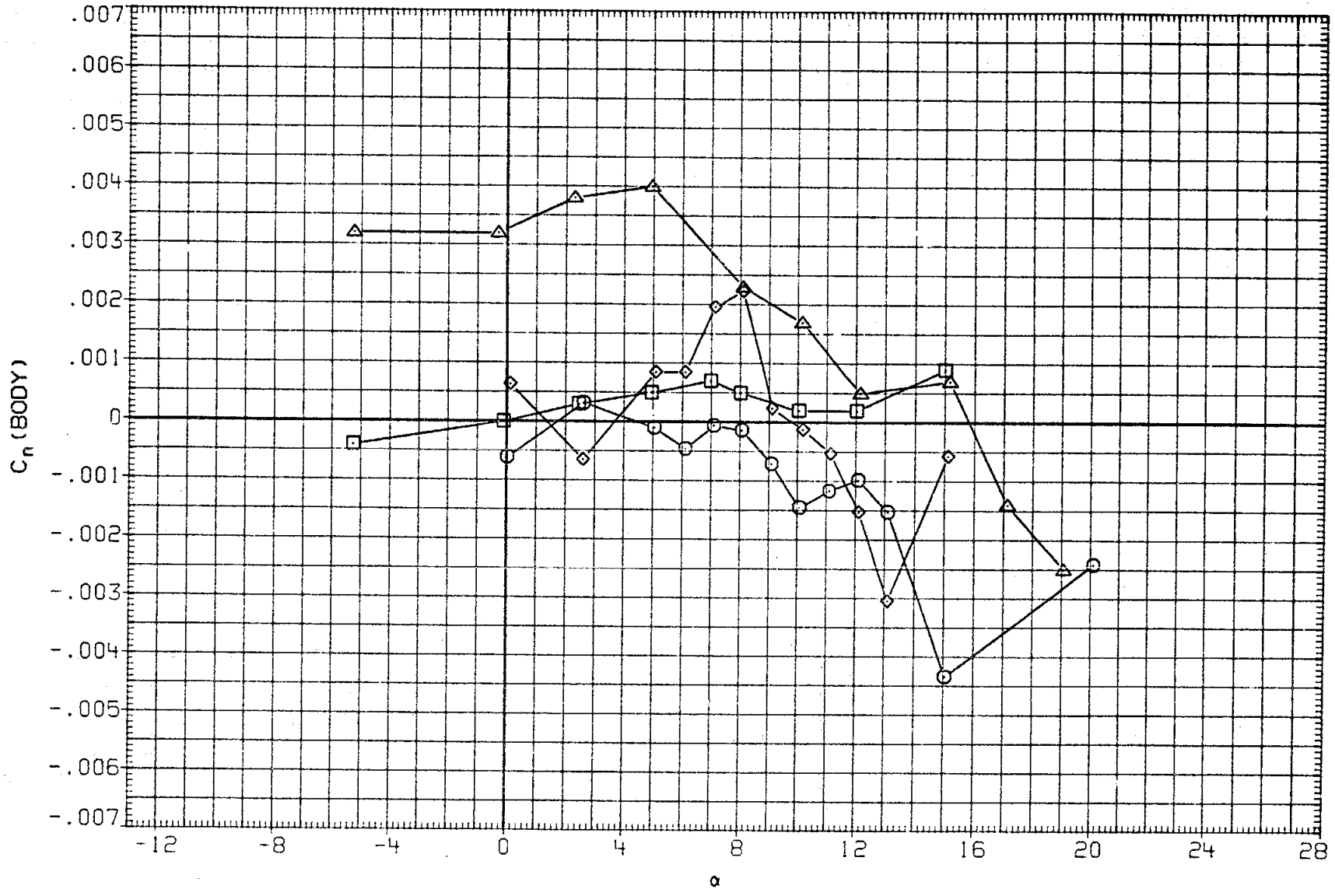

FIGURE 22. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=0

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	.000	.000	
RK0023	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	2.000	.000	.000	.000	.000	.000	.000
R2F071	△	AMES 118-1-11 OA145A 01	2.000	.000	.000	.000	.000	.000	

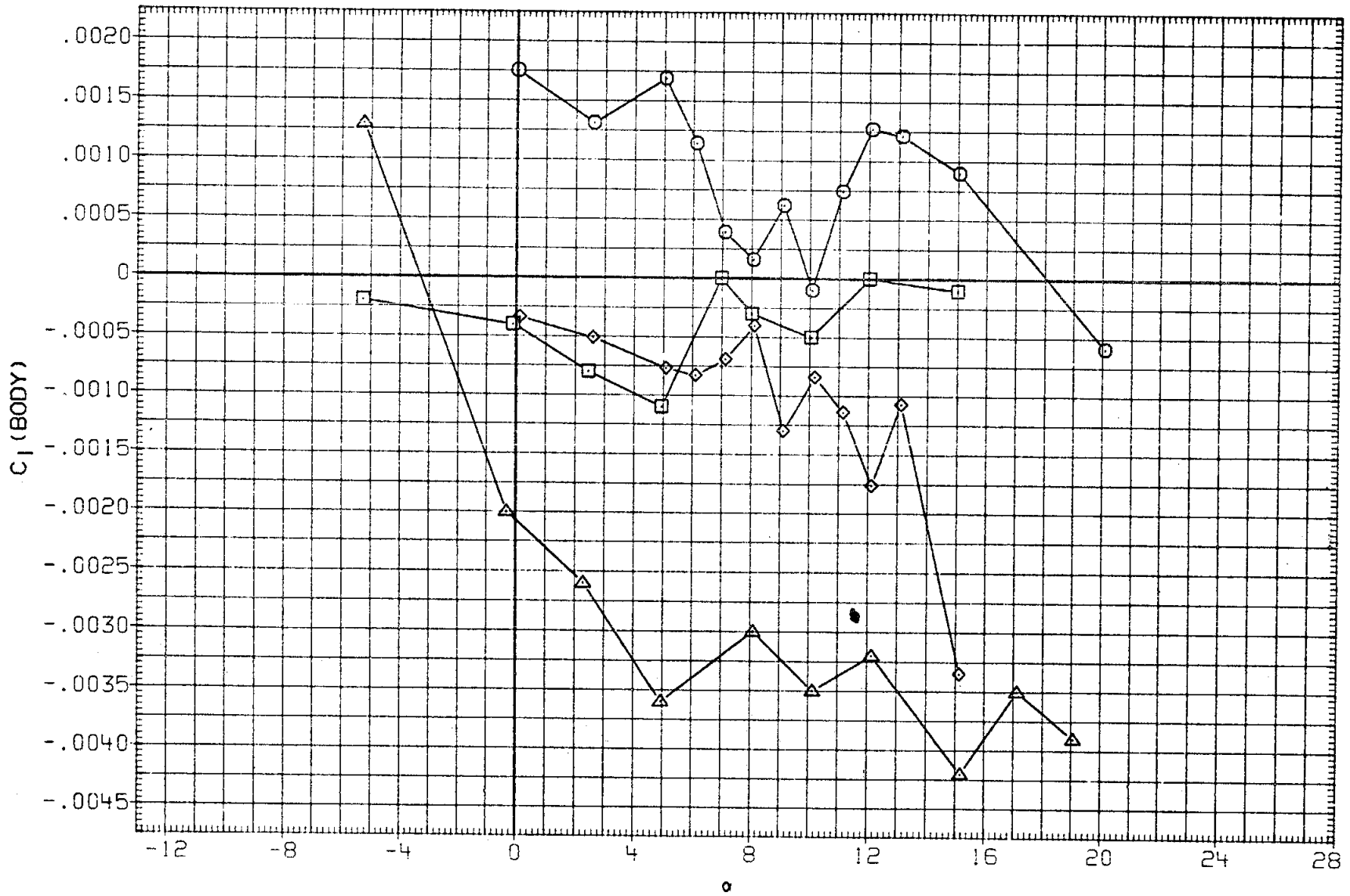

FIGURE 22. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=0

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	DATA NOT AVAILABLE	.000	.000	.000	.000	.000	.000	
RK0023	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	2.000	.000	.000	.000	.000	.000	.000
R2F071	△	DATA NOT AVAILABLE	2.000	.000	.000	.000	.000	.000	

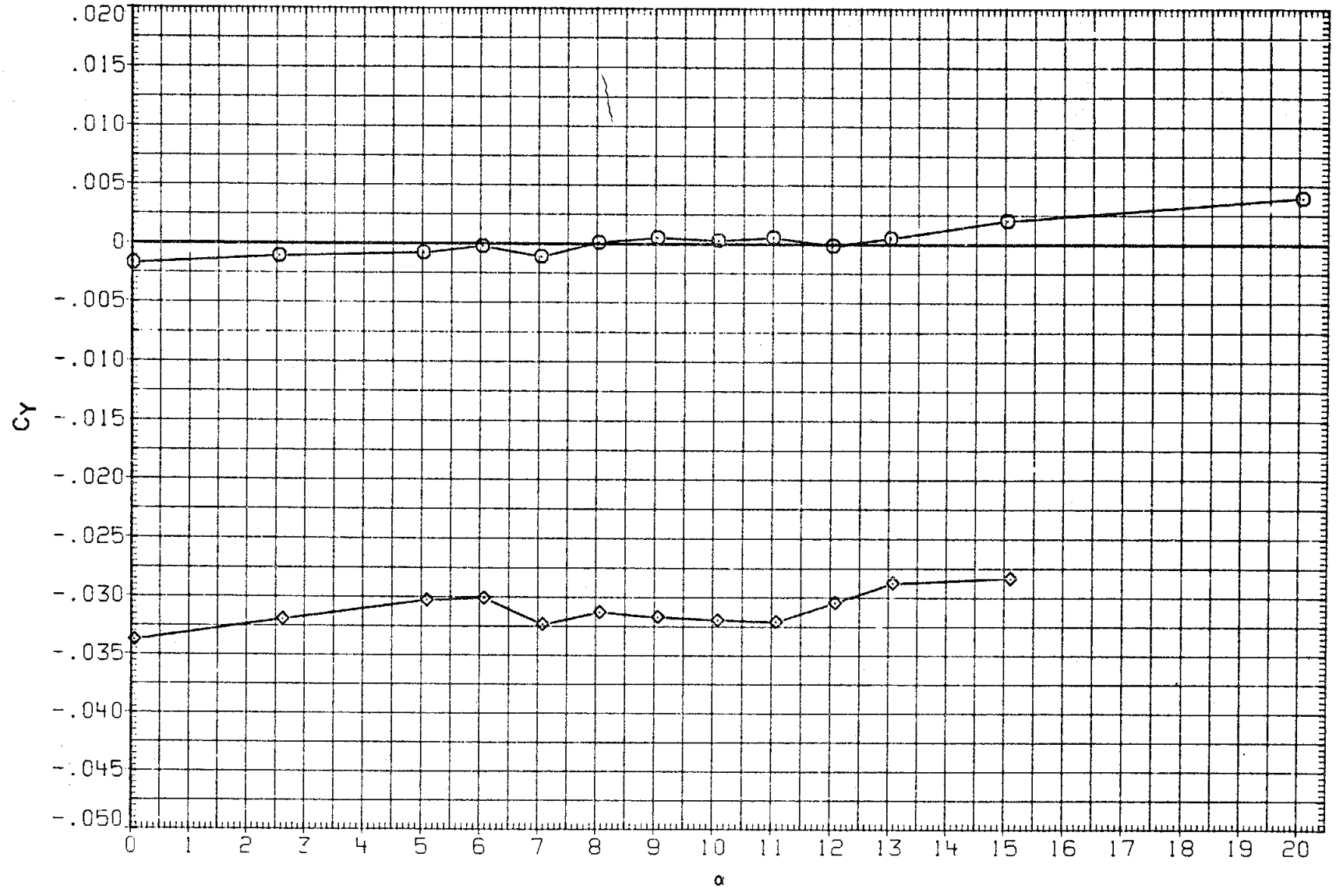

FIGURE 22. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=0

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	FDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	DATA NOT AVAILABLE	.000	.000	.000	.000	.000	.000	
RK0023	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	2.000	.000	.000	.000	.000	.000	.000
R2F071	△	DATA NOT AVAILABLE	2.000	.000	.000	.000	.000	.000	

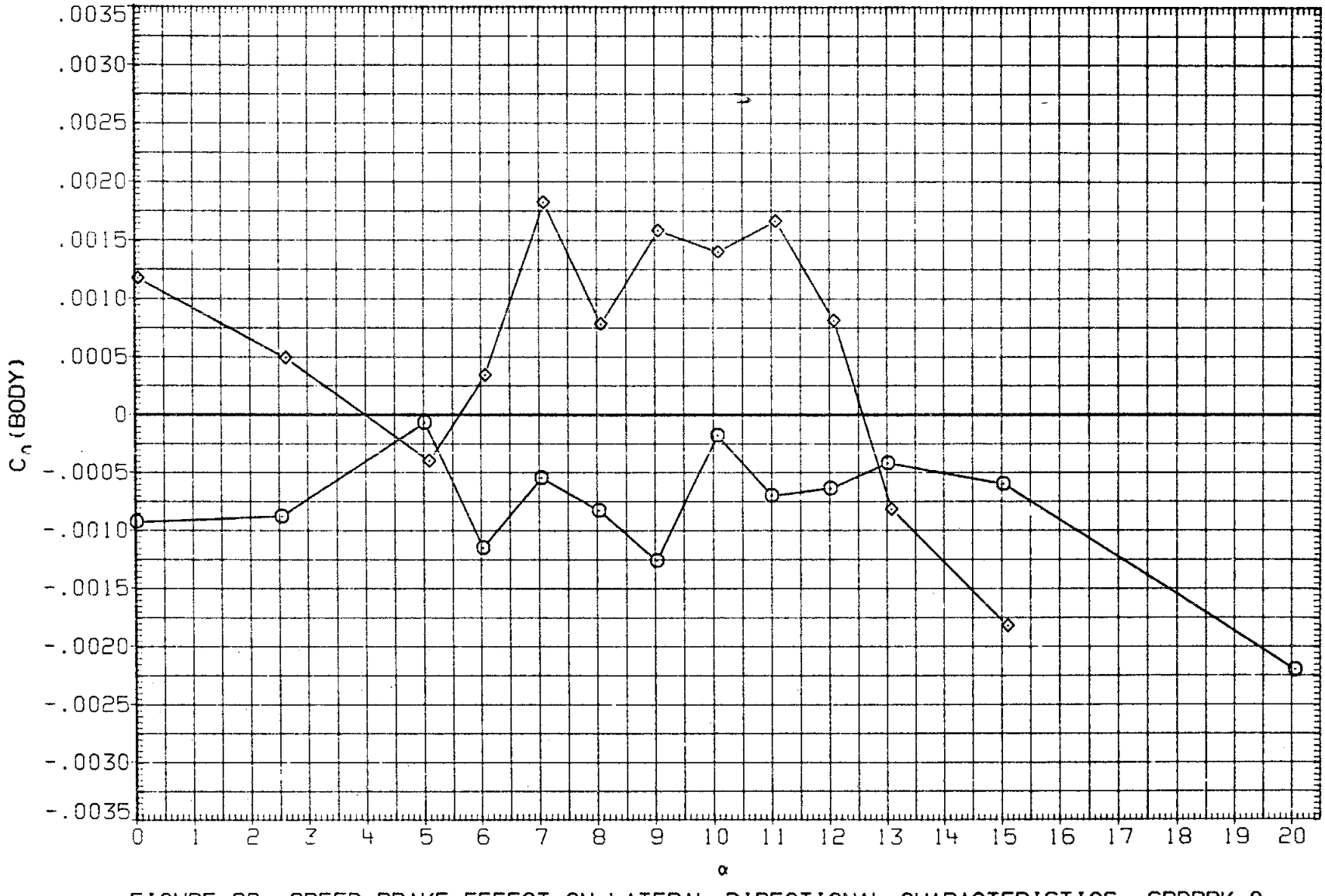

FIGURE 22. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=0

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	DATA NOT AVAILABLE	.000	.000	.000	.000	.000	.000	
RK0023	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	2.000	.000	.000	.000	.000	.000	.000
R2F071	△	DATA NOT AVAILABLE	2.000	.000	.000	.000	.000	.000	

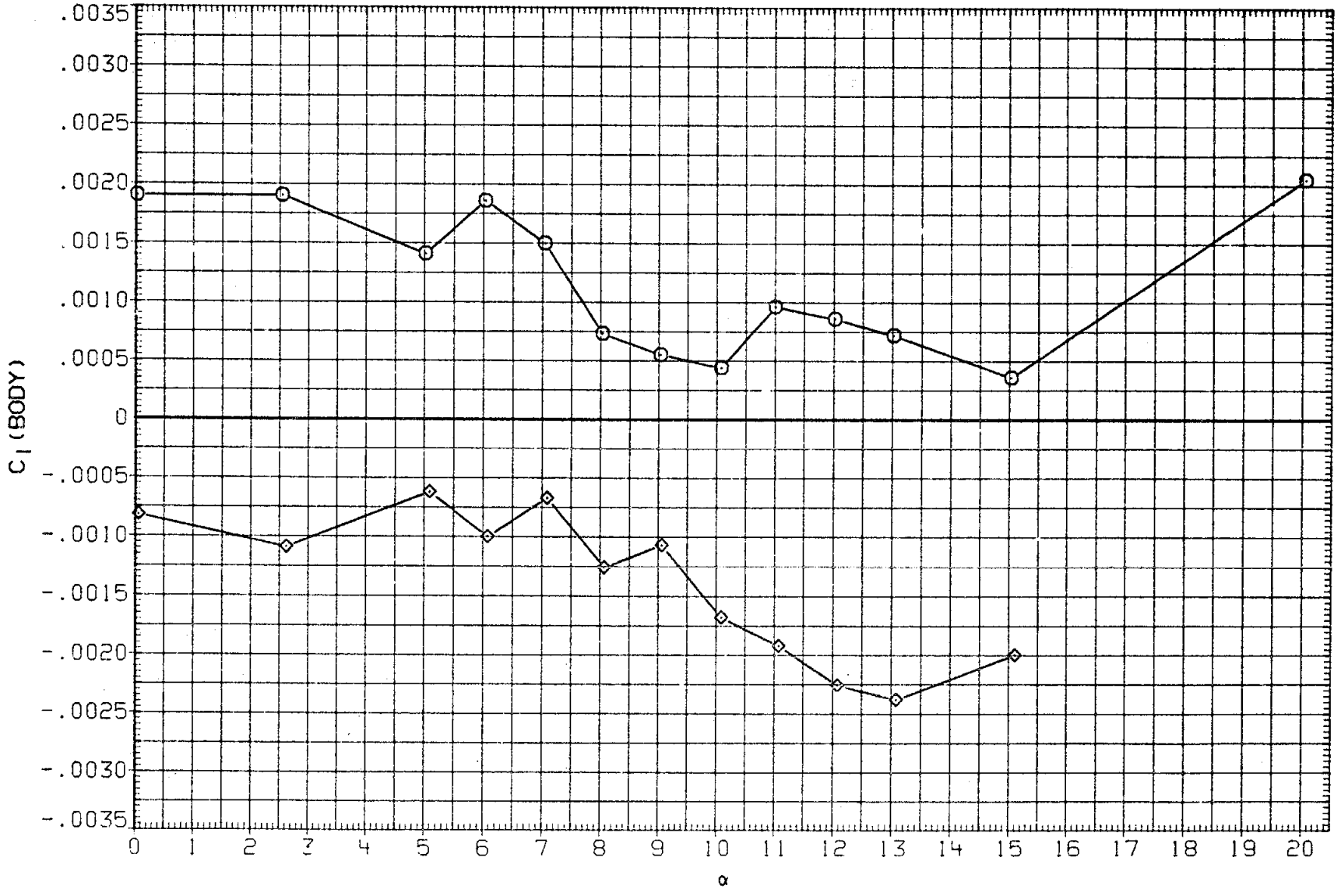

FIGURE 22. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=0

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	DATA NOT AVAILABLE	.000	.000	.000	.000	.000	.000	
RK0023	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	2.000	.000	.000	.000	.000	.000	.000
R2F071	△	DATA NOT AVAILABLE	2.000	.000	.000	.000	.000	.000	

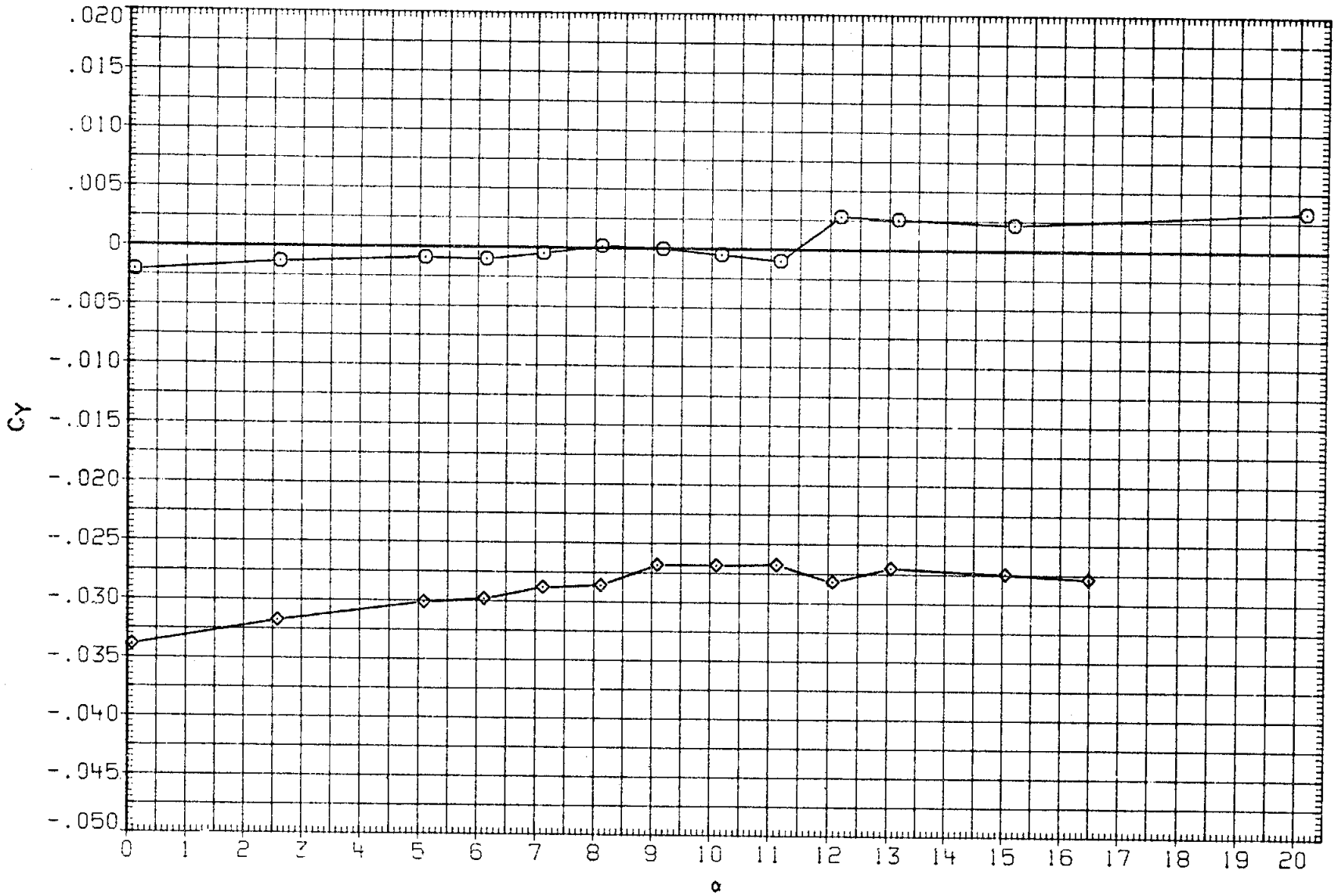

FIGURE 22. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=0

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	DATA NOT AVAILABLE	.000	.000	.000	.000	.000	.000	
RK0023	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	2.000	.000	.000	.000	.000	.000	.000
R2F071	△	DATA NOT AVAILABLE	2.000	.000	.000	.00	.000	.000	

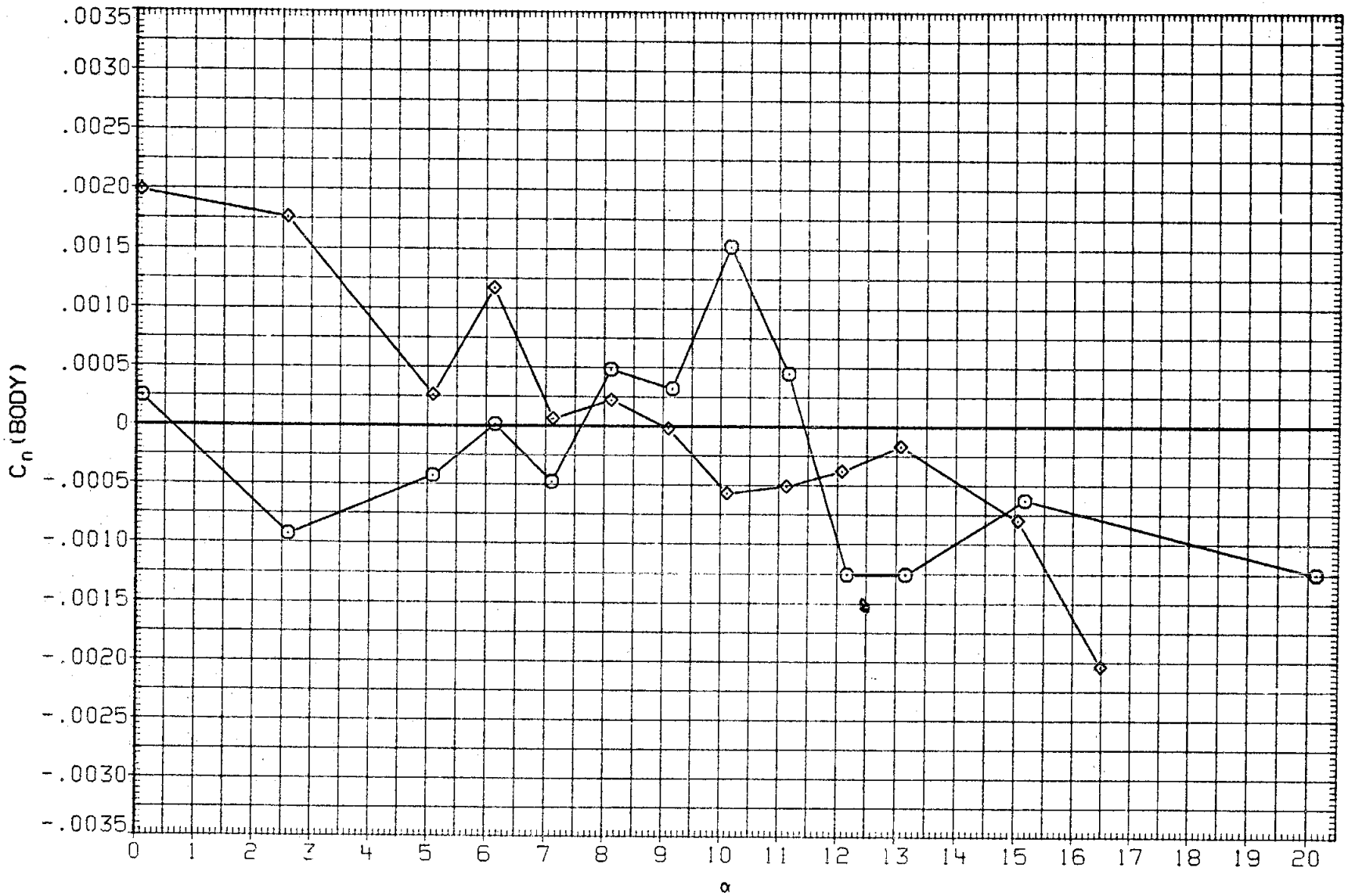

FIGURE 22. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=0

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	DATA NOT AVAILABLE	.000	.000	.000	.000	.000	.000	
RK0023	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	2.000	.000	.000	.000	.000	.000	.000
R2F071	△	DATA NOT AVAILABLE	2.000	.000	.000	.000	.000	.000	

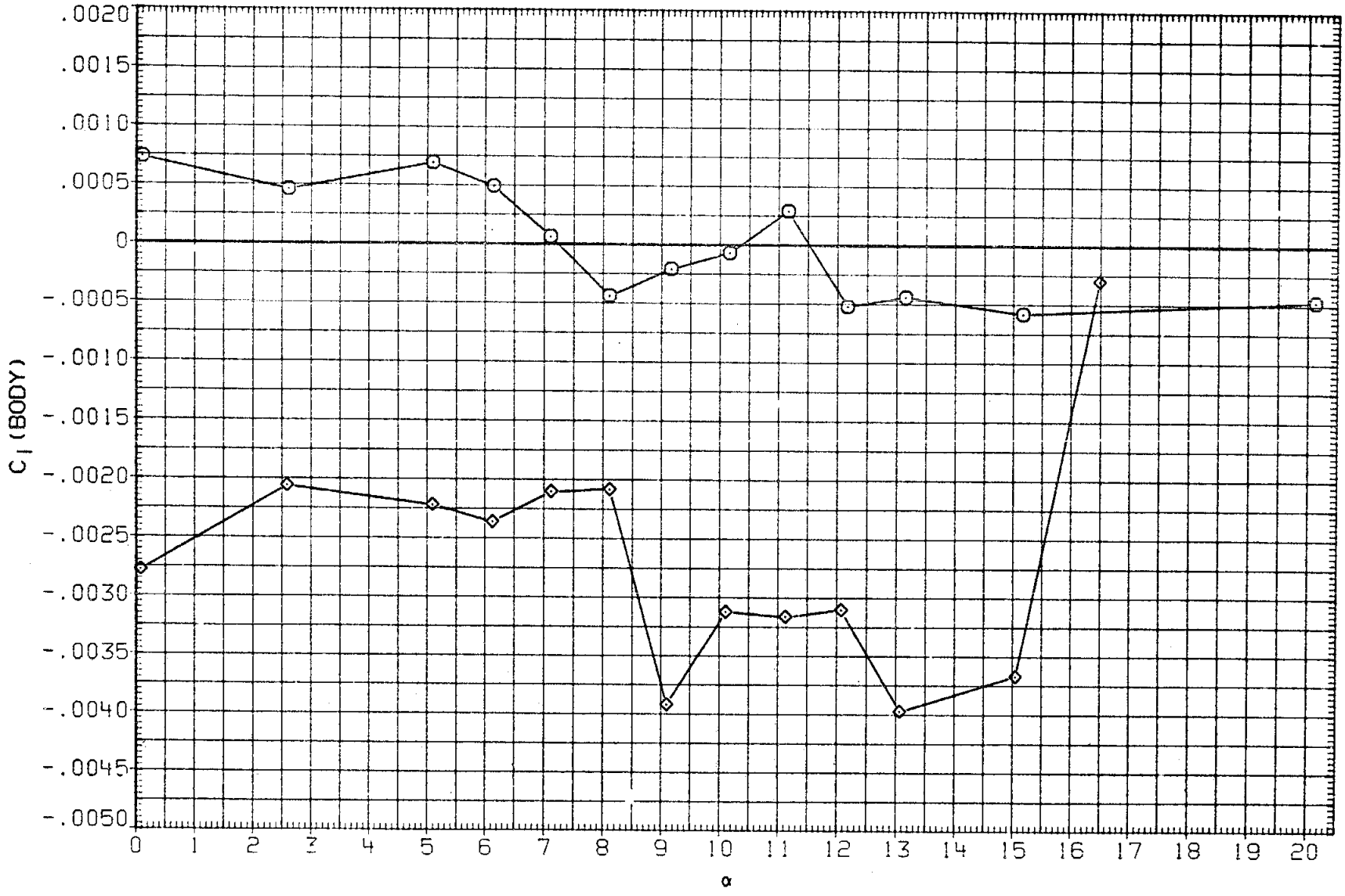

FIGURE 22. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=0

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION
RK0013	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F070	□	AMES 11B-1-11 OA145A 01
RK0023	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F071	△	DATA NOT AVAILABLE

BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
.000	.000	.000	.000	.000	-.030	.000
.000	.000	.000	.000	.000	.000	
2.000	.000	.000	.000	.000	.000	.000
2.000	.000	.000	.000	.000	.000	

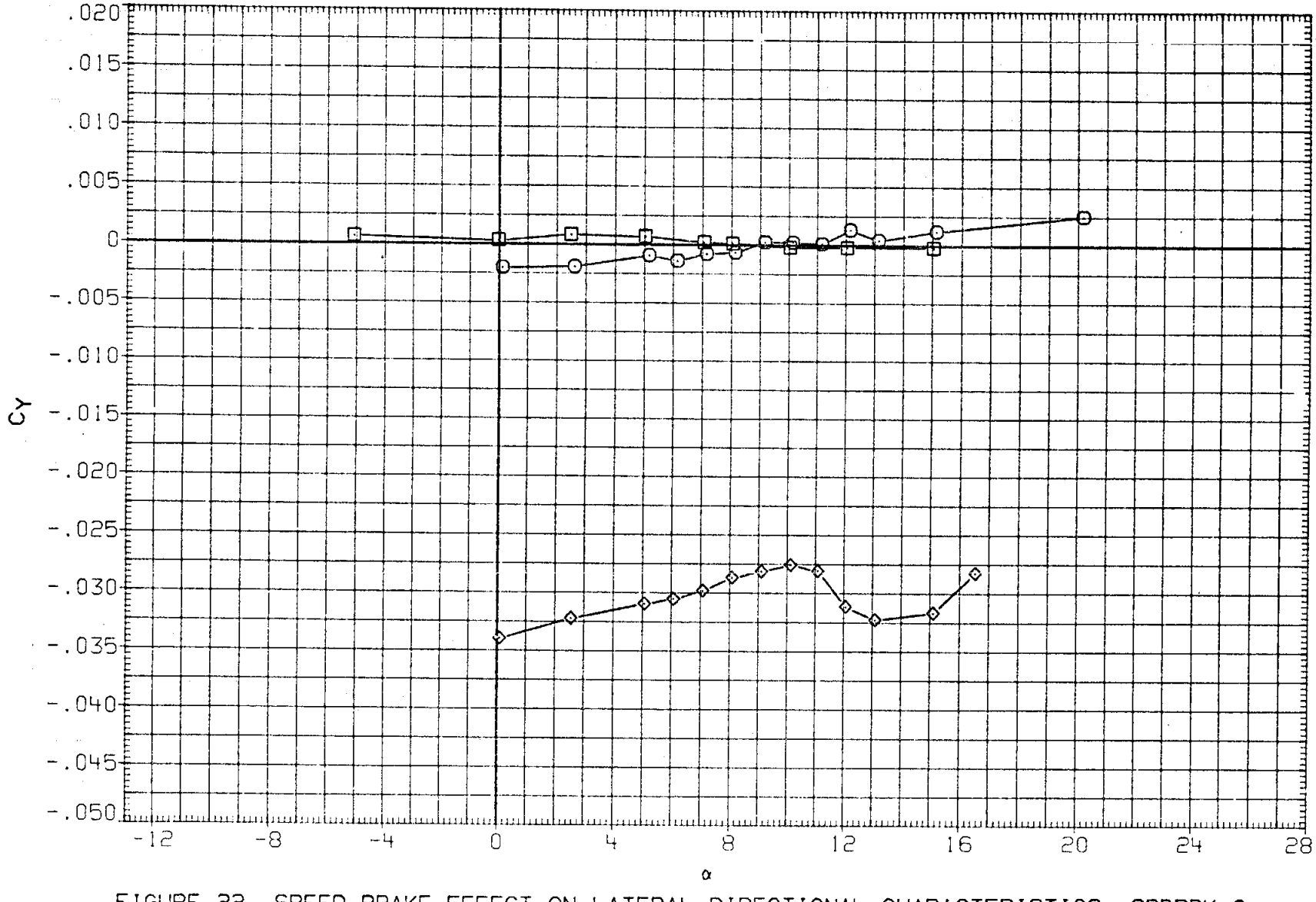

FIGURE 22. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=0

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	AMES 11B-1-11 0A145A 01	.000	.000	.000	.000	.000	.000	
RK0023	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.	2.000	.000	.000	.000	.000	.000	.000
R2F071	△	DATA NOT AVAILABLE	2.000	.000	.000	.000	.000	.000	

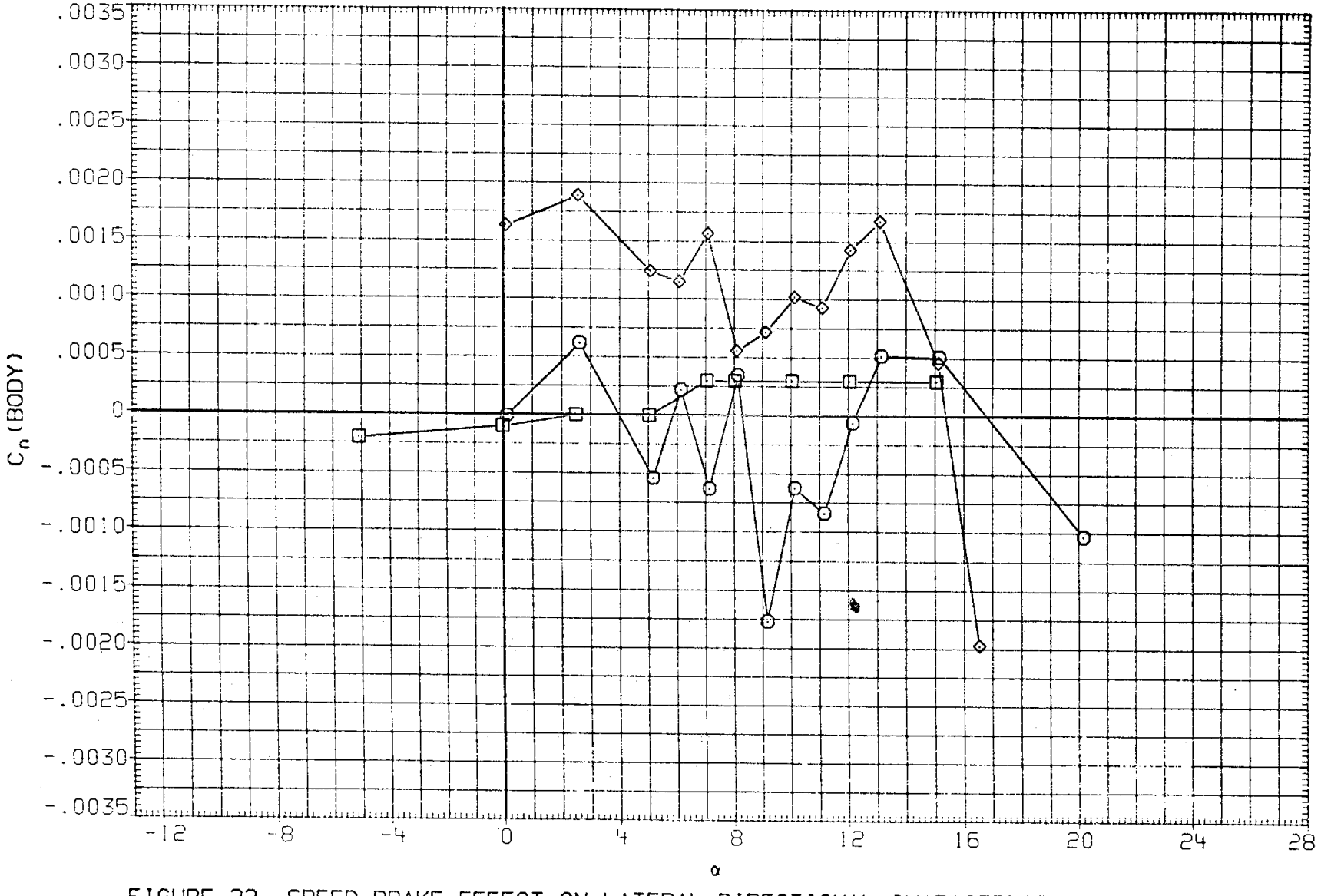

FIGURE 22. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=0

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	.000	.000	
RK0023	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	2.000	.000	.000	.000	.000	.000	.000
R2F071	△	DATA NOT AVAILABLE	2.000	.000	.000	.000	.000	.000	

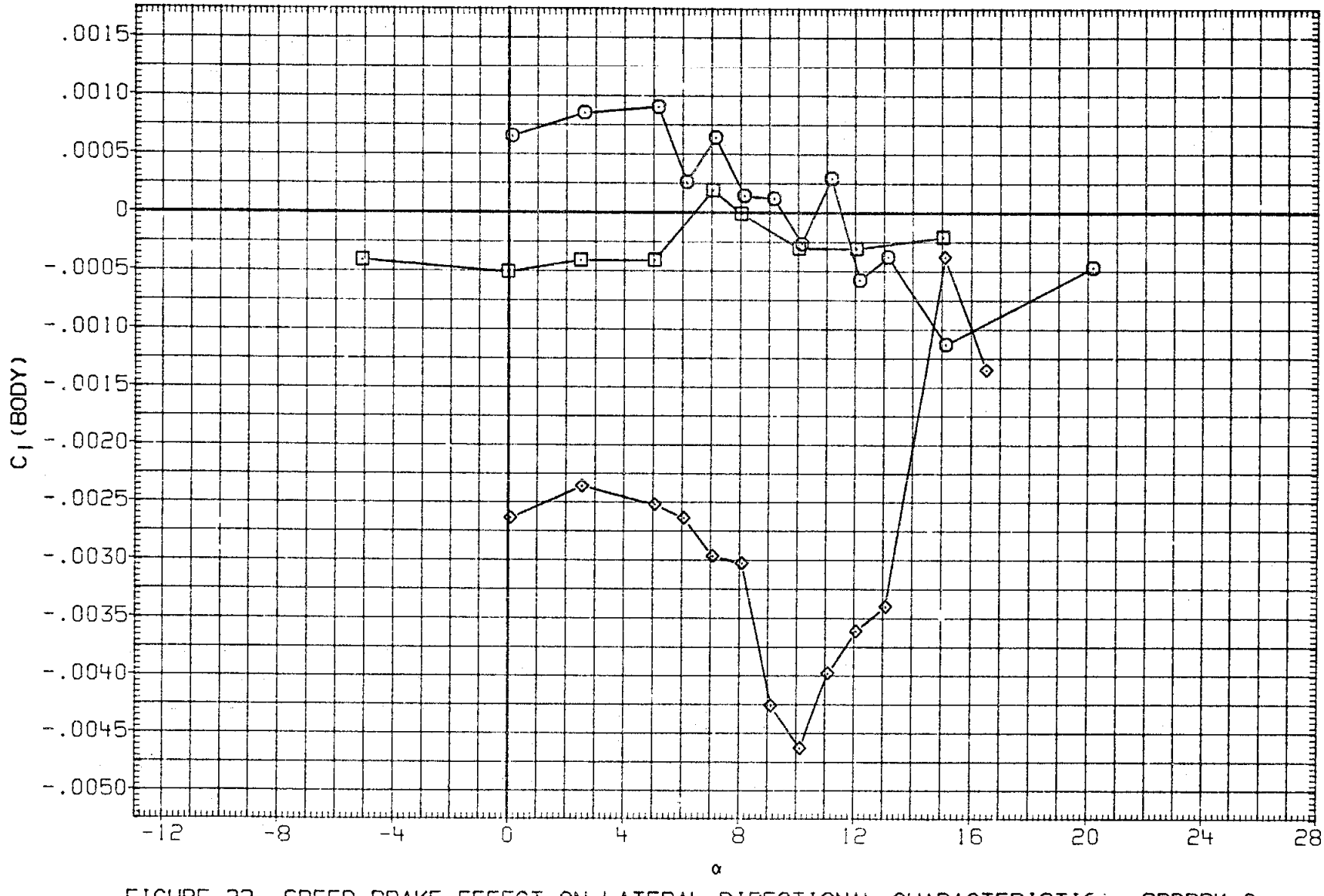

FIGURE 22. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTI[illegible], SPDBRK=0

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION
RK0013	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F070	□	AMES 118-1-11 OA145A 01
RK0023	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F071	△	DATA NOT AVAILABLE

BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
.000	.000	.000	.000	.000	-.030	.000
.000	.000	.000	.000	.000	.000	
2.000	.000	.000	.000	.000	.000	.000
2.000	.000	.000	.000	.000	.000	

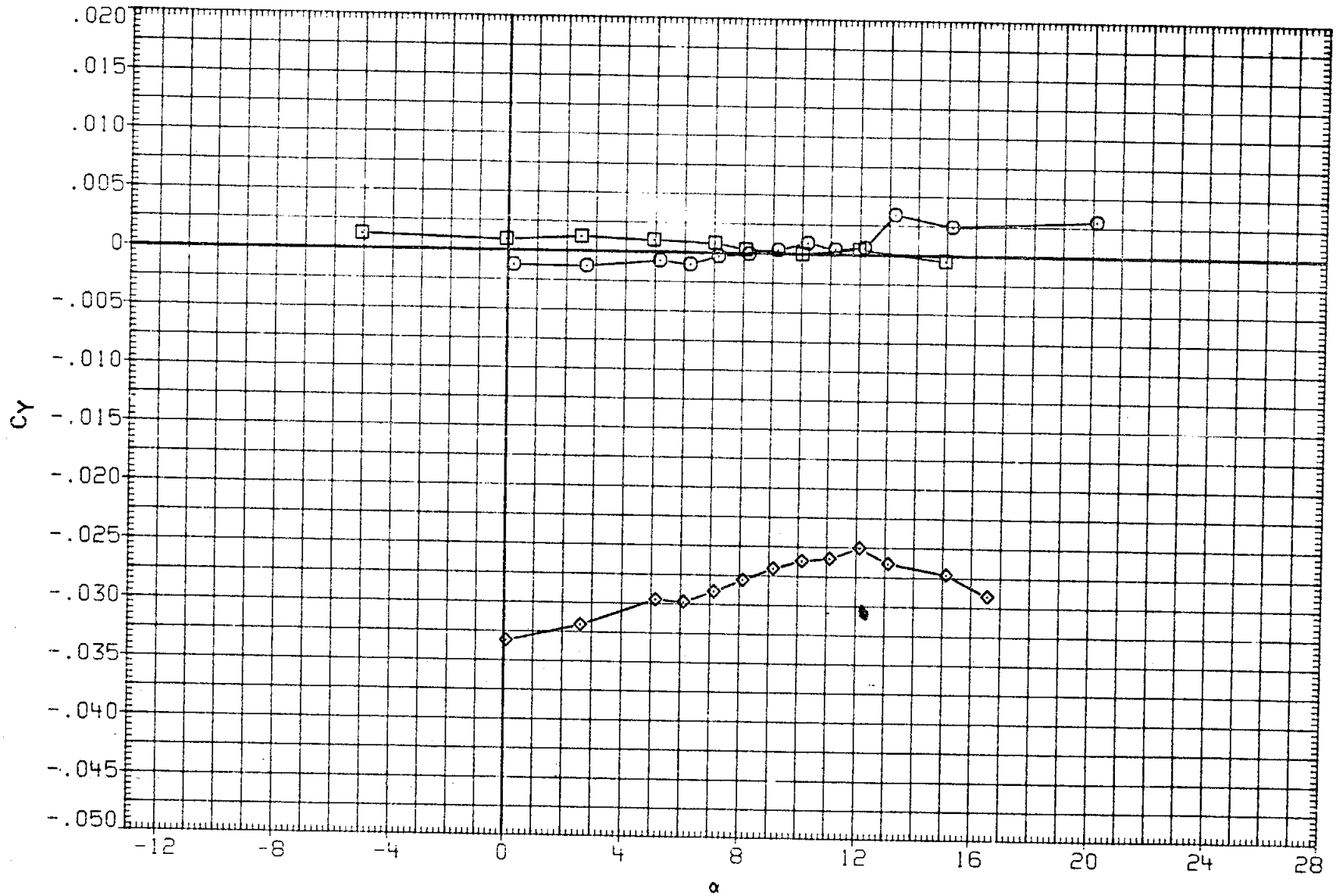

FIGURE 22. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=0

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	.000	.000	
RK0023	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	2.000	.000	.000	.000	.000	.000	.000
R2F071	△	DATA NOT AVAILABLE	2.000	.000	.000	.000	.000	.000	

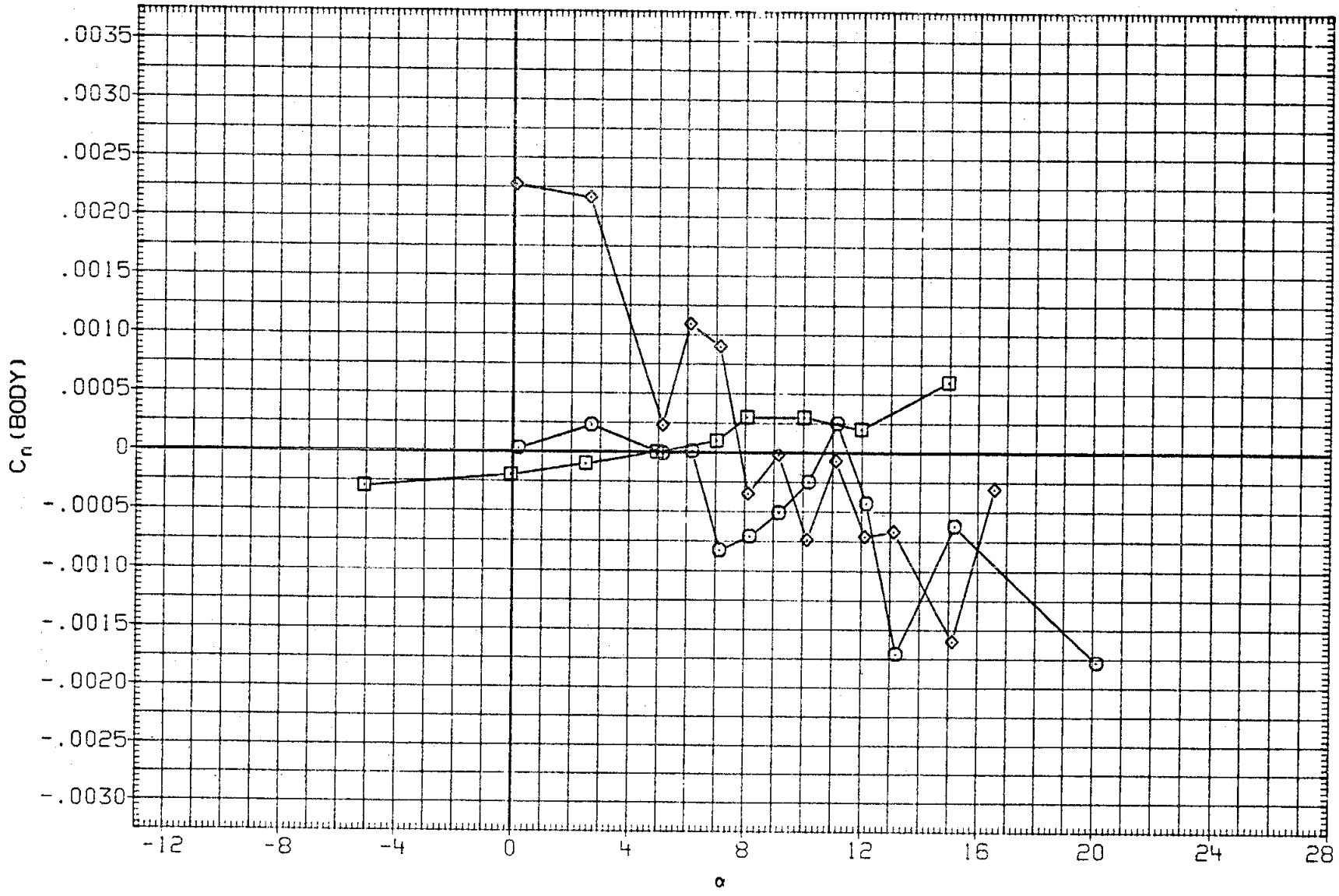

FIGURE 22. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=0

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	.000	.000	
RK0023	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	2.000	.000	.000	.000	.000	.000	.000
R2F071	△	DATA NOT AVAILABLE	2.000	.000	.000	.000	.000	.000	

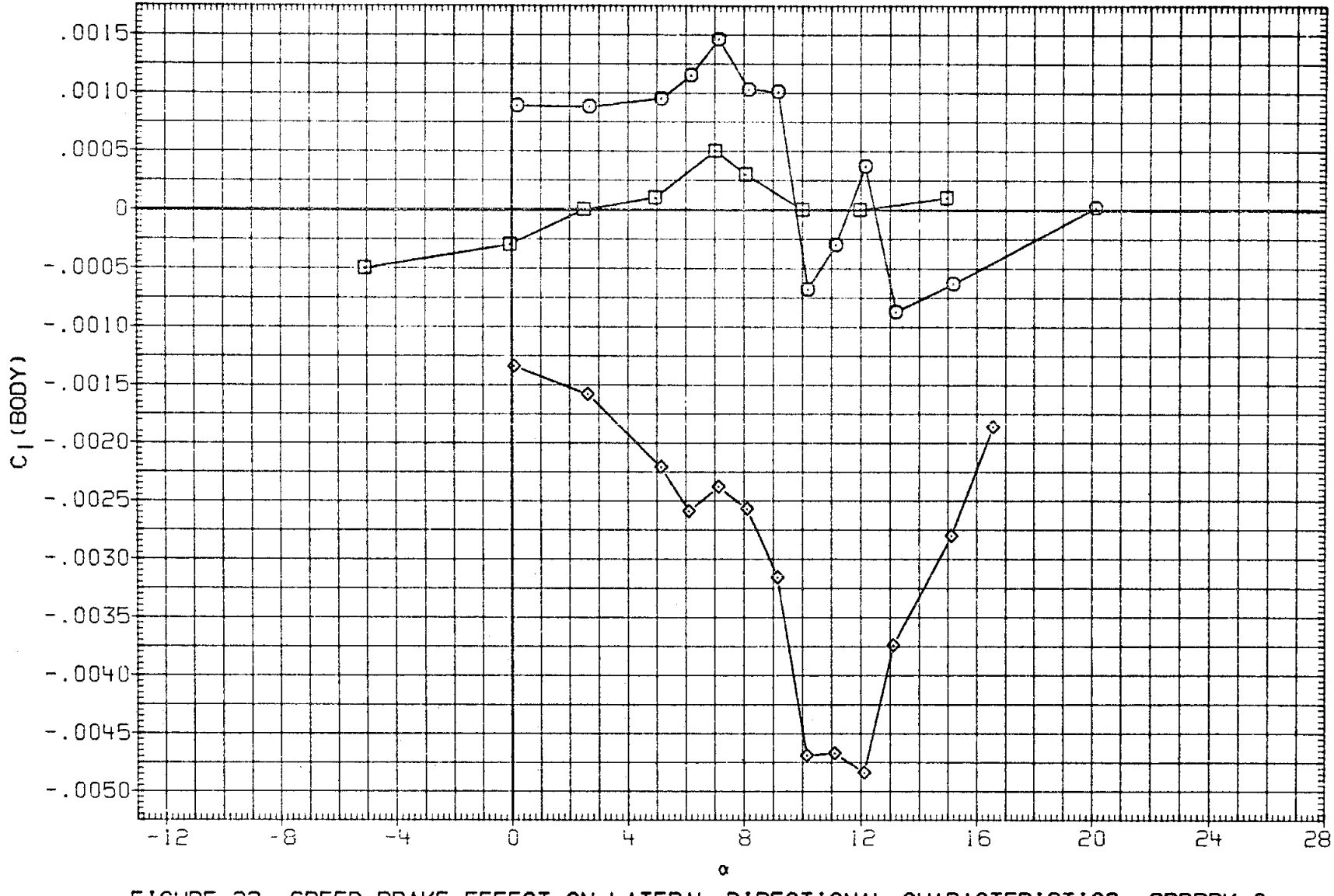

FIGURE 22. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=0

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION
RK0013	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F070	□	DATA NOT AVAILABLE
RK0023	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F071	△	DATA NOT AVAILABLE

BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
.000	.000	.000	.000	.000	-.030	.000
.000	.000	.000	.000	.000	.000	
2.000	.000	.000	.000	.000	.000	.000
2.000	.000	.000	.000	.000	.000	

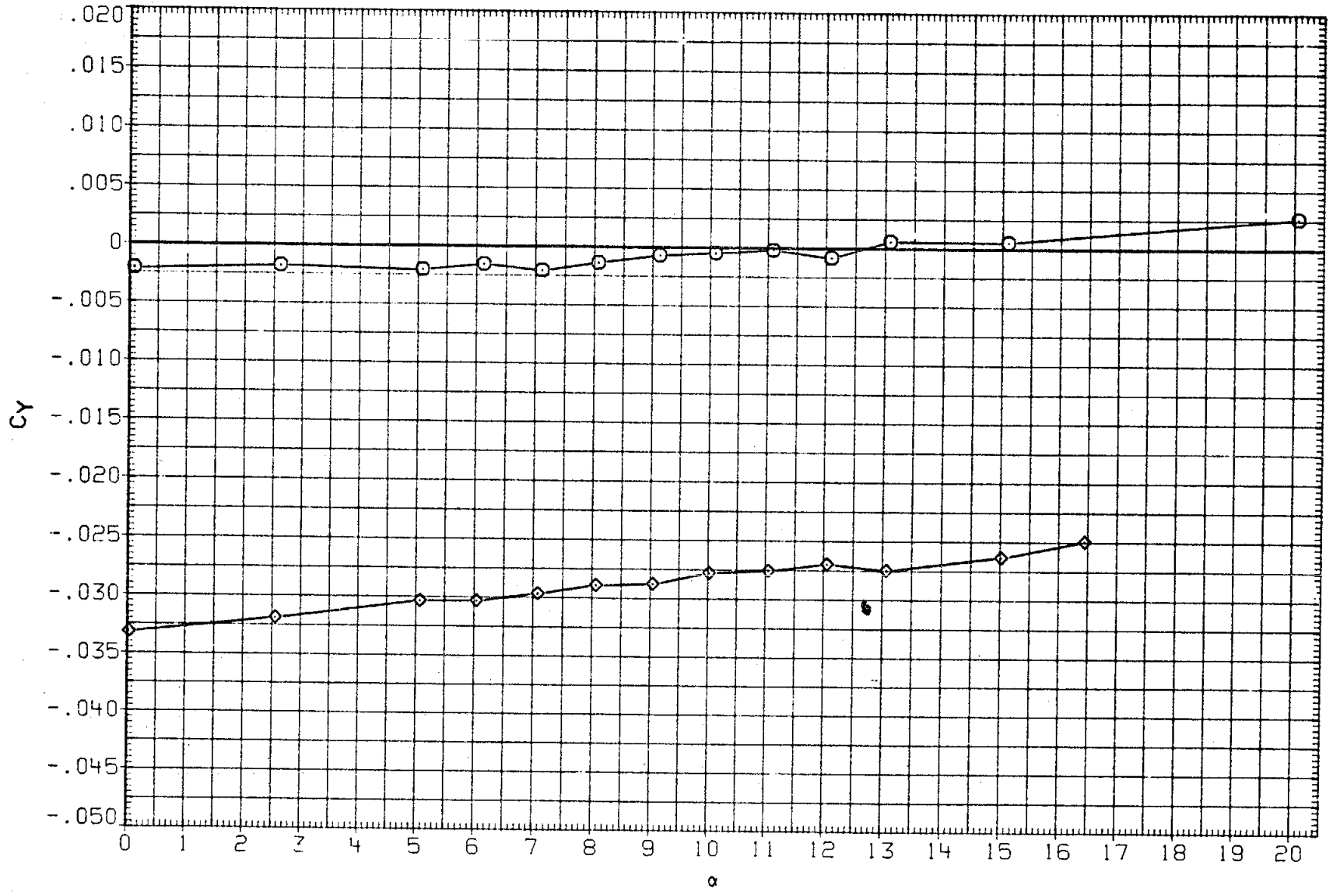

FIGURE 22. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=0

(I)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	DATA NOT AVAILABLE	.000	.000	.000	.000	.000	.000	
RK0023	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	2.000	.000	.000	.000	.000	.000	.000
R2F071	△	DATA NOT AVAILABLE	2.000	.000	.000	.000	.000	.000	

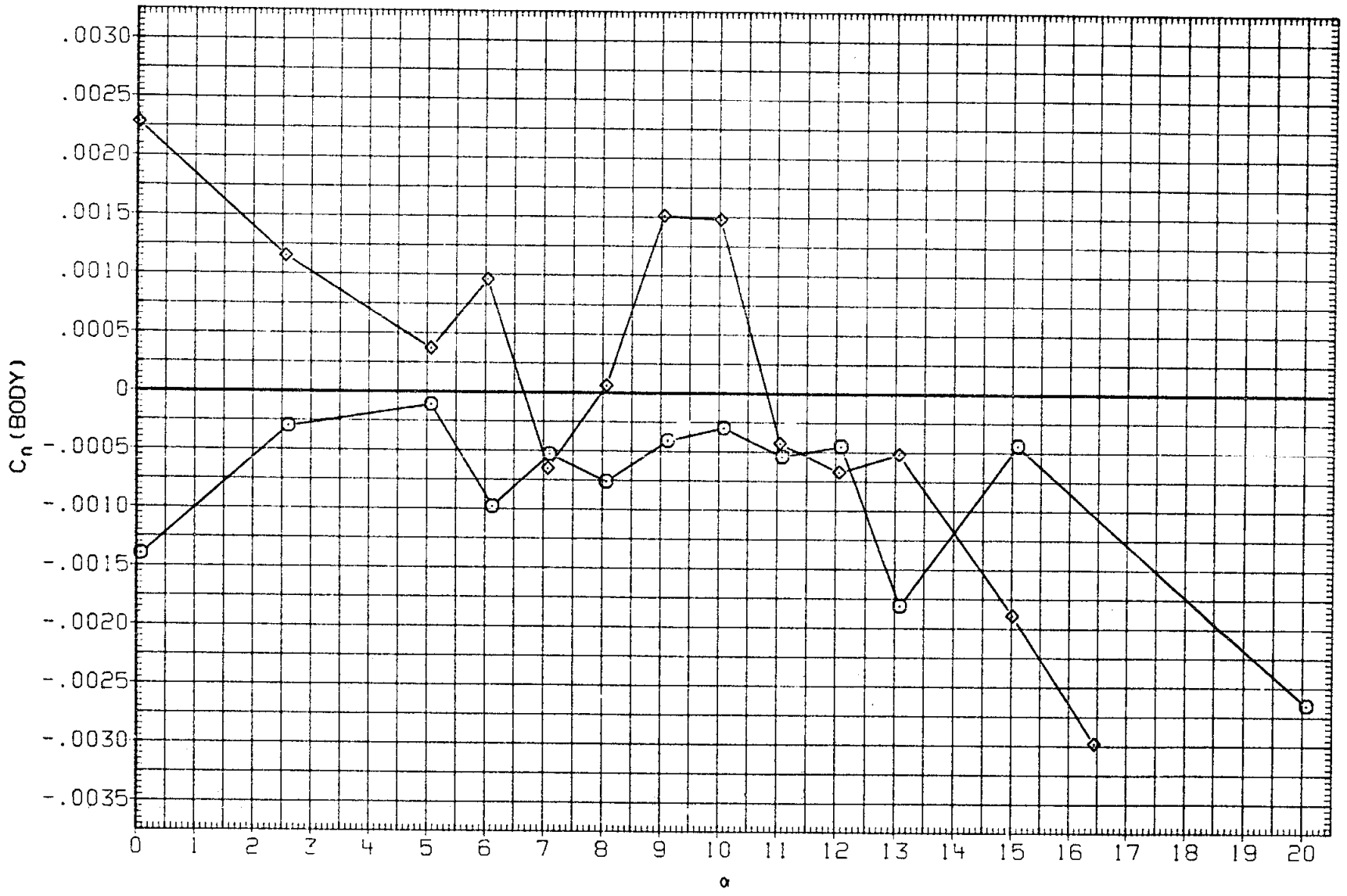

FIGURE 22. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=0

(I) MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	DATA NOT AVAILABLE	.000	.000	.000	.000	.000	.000	
RK0023	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	2.000	.000	.000	.000	.000	.000	.000
R2F071	△	DATA NOT AVAILABLE	2.000	.000	.000	.000	.000	.000	

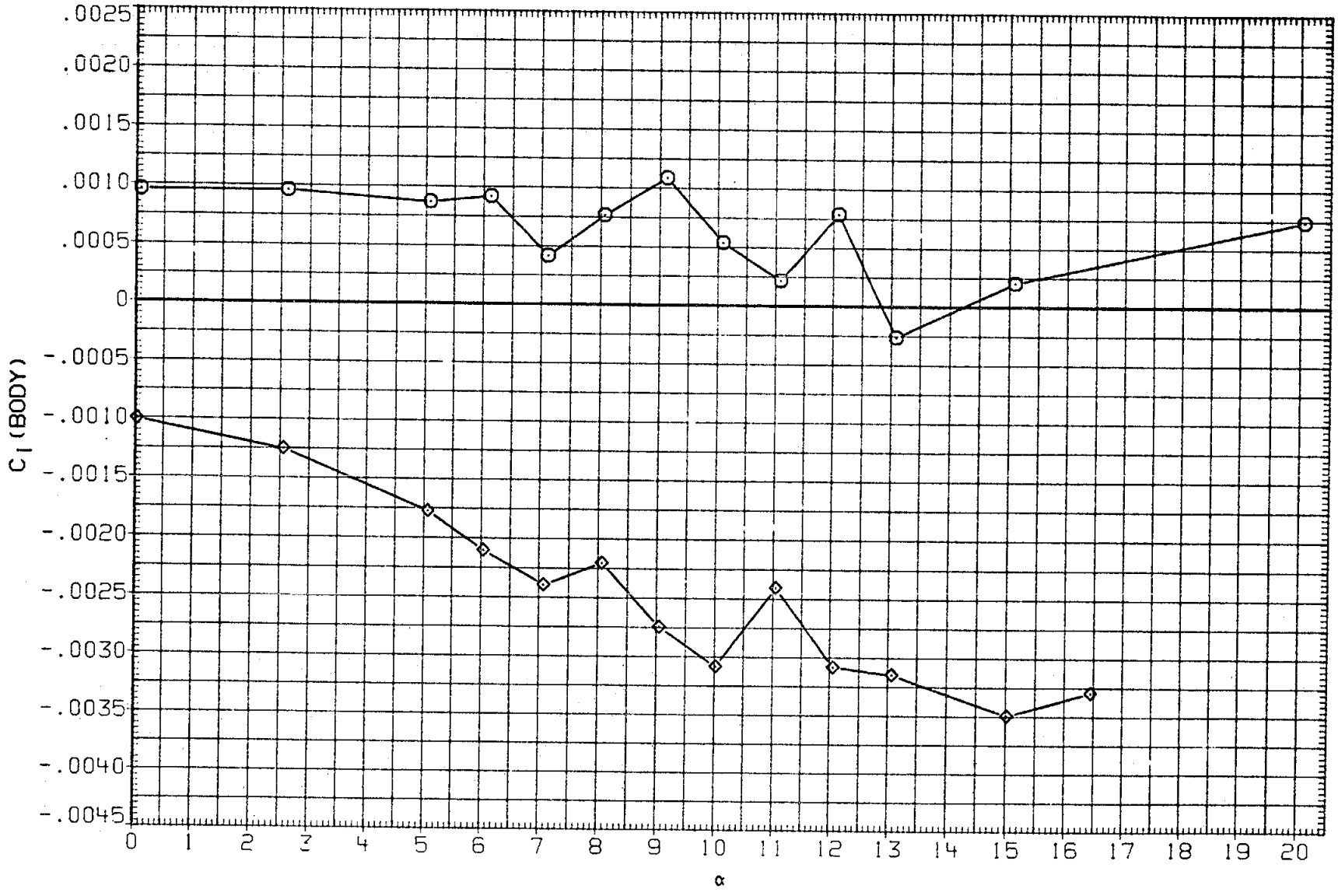

FIGURE 22. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=0

(I)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION
RK0013	○	DATA NOT AVAILABLE
R2F070	□	AMES 118-1-11 OA145A 01
RK0023	◇	DATA NOT AVAILABLE
R2F071	△	DATA NOT AVAILABLE

BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
.000	.000	.000	.000	.000	-.030	.000
.000	.000	.000	.000	.000	.000	
2.000	.000	.000	.000	.000	.000	.000
2.000	.000	.000	.000	.000	.000	

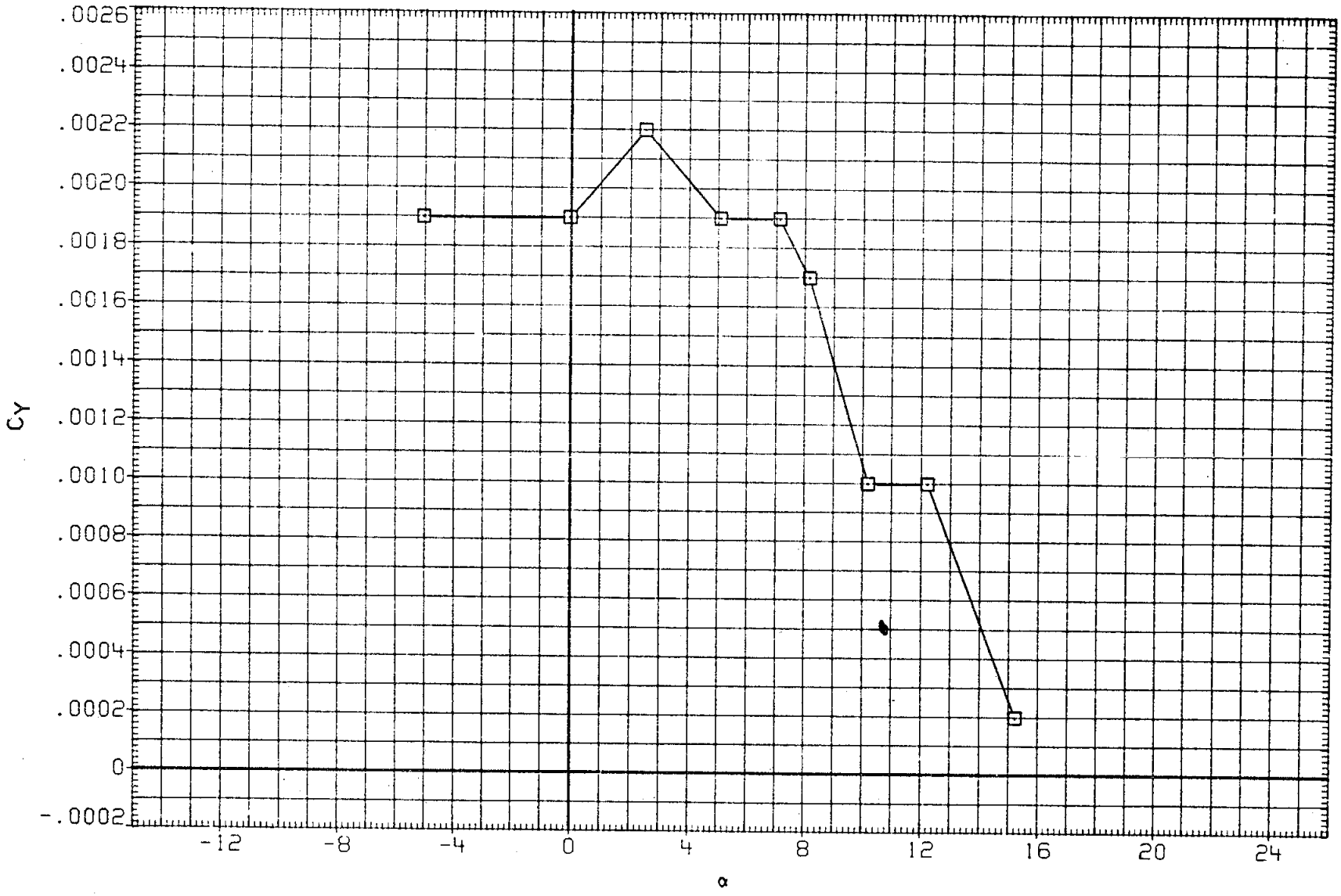

FIGURE 22. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=0

(J)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	DATA NOT AVAILABLE	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	AMES 11ε-1-11 OA145A 01	.000	.000	.000	.000	.000	.000	
RK0023	◇	DATA NOT AVAILABLE	2.000	.000	.000	.000	.000	.000	.000
R2F071	△	DATA NOT AVAILABLE	2.000	.000	.000	.000	.000	.000	

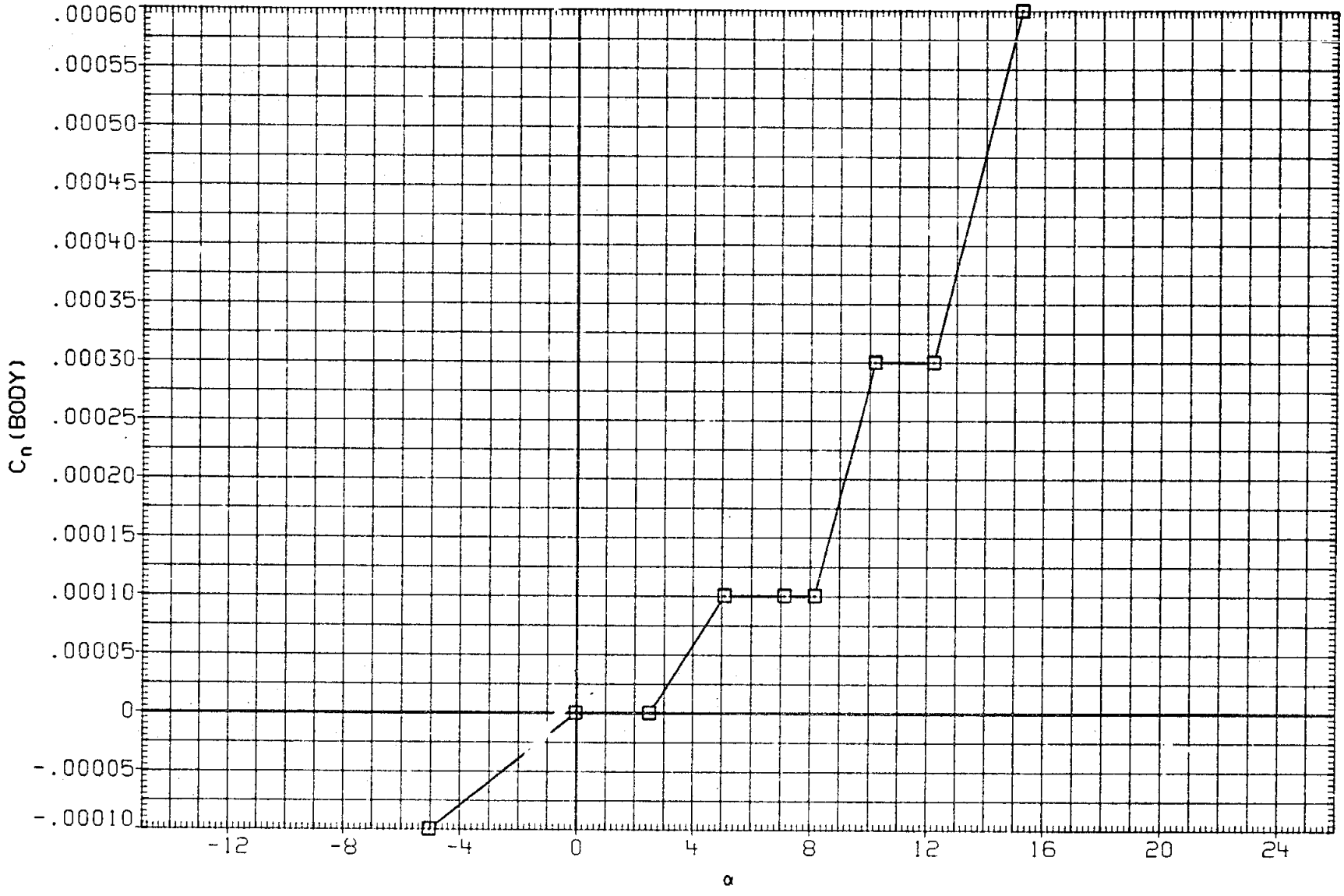

FIGURE 22. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=0

(J)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0013	○	DATA NOT AVAILABLE	.000	.000	.000	.000	.000	-.030	.000
R2F070	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	.000	.000	
RK0023	◇	DATA NOT AVAILABLE	2.000	.000	.000	.000	.000	.000	.000
R2F071	△	DATA NOT AVAILABLE	2.000	.000	.000	.000	.000	.000	

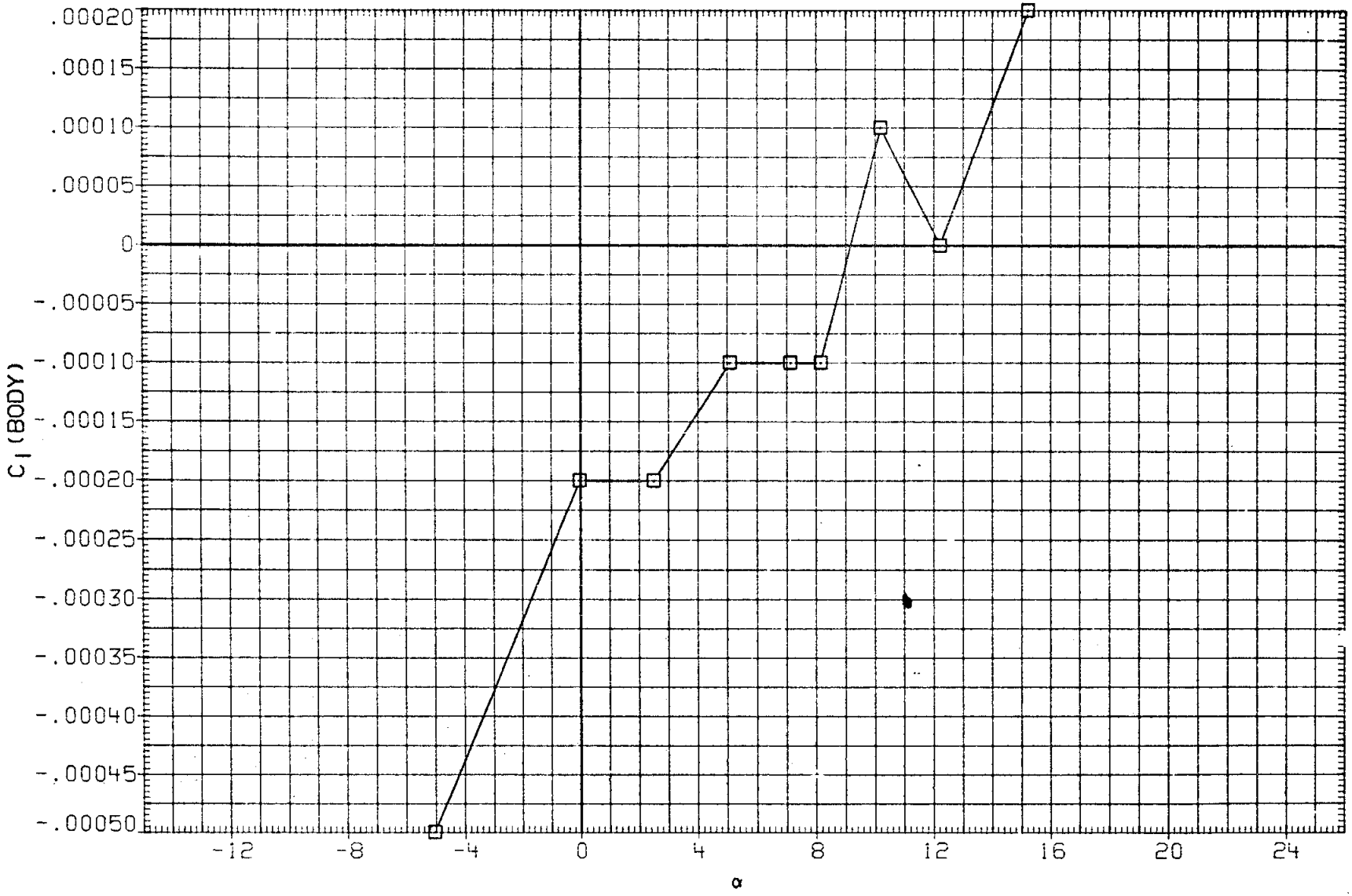

FIGURE 22. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=0

(J)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0014	○	DATA NOT AVAILABLE	.000	.000	.000	.000	54.570	.060	.000
R2F098	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	55.000	.000	
RK0024	◇	DATA NOT AVAILABLE	2.000	.000	.000	.000	54.570	.060	.000
R2F099	△	AMES 118-1-11 OA145A 01	2.000	.000	.000	.000	55.000	.000	

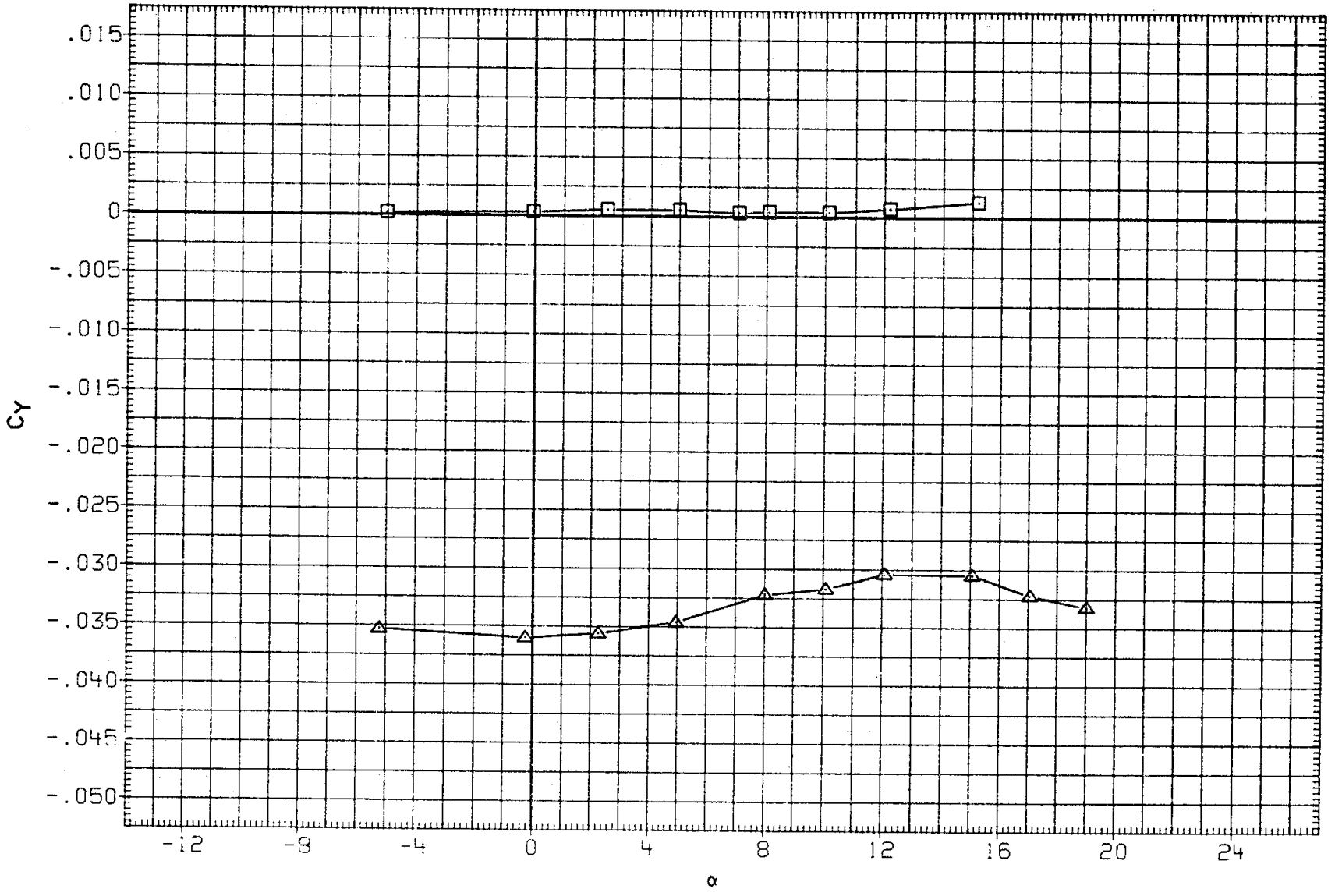

FIGURE 23. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=55

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0014	○	DATA NOT AVAILABLE	.000	.000	.000	.000	54.570	.060	.000
R2F098	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	55.000	.000	
RK0024	◇	DATA NOT AVAILABLE	2.000	.000	.000	.000	54.570	.060	.000
R2F099	△	AMES 118-1-11 OA145A 01	2.000	.000	.000	.000	55.000	.000	

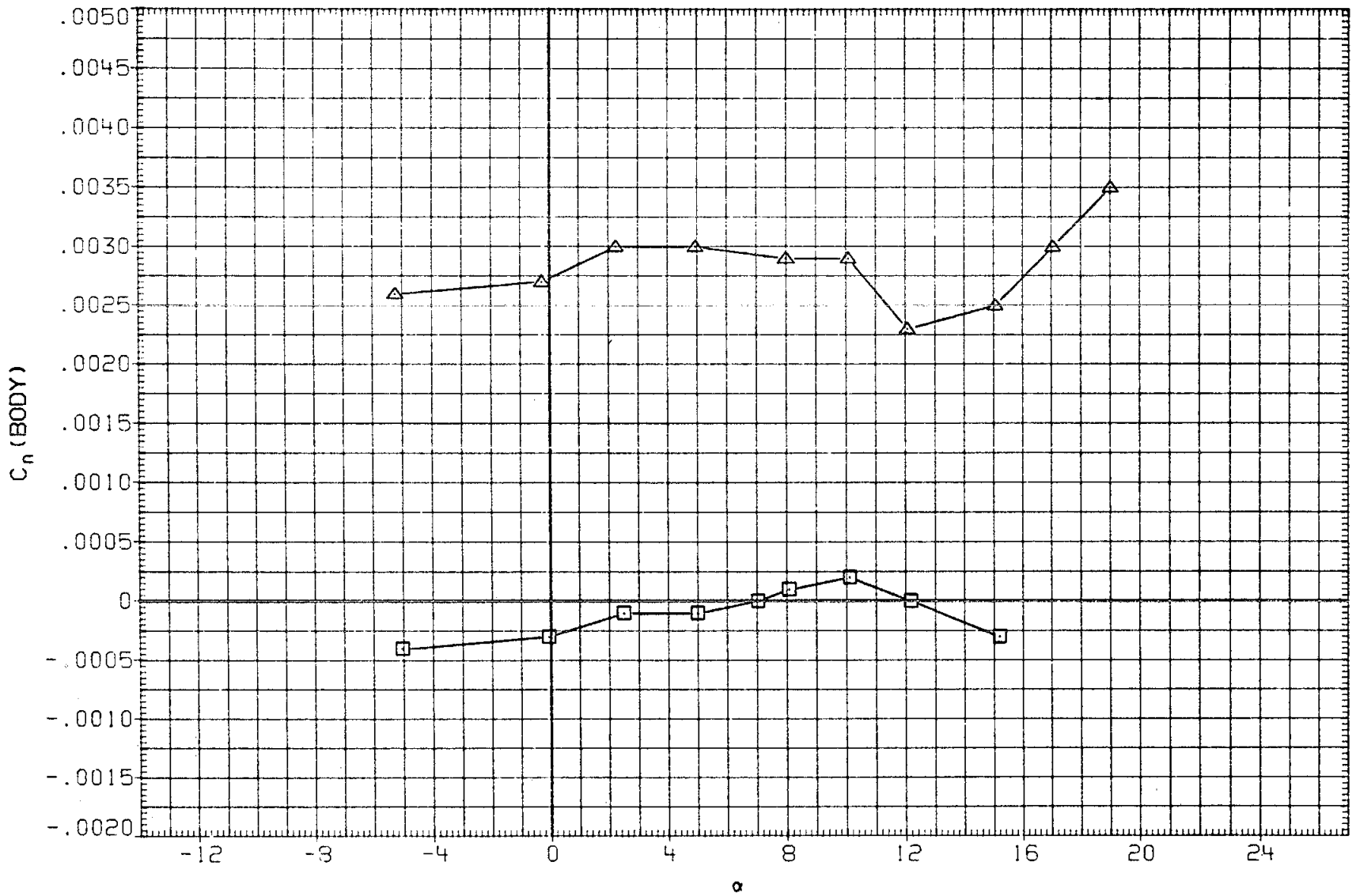

FIGURE 23. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=55

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION
RK0014	○	DATA NOT AVAILABLE
R2F098	□	AMES 118-1-11 OA145A 01
RK0024	◇	DATA NOT AVAILABLE
R2F099	△	AMES 118-1-11 OA145A 01

BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
.000	.000	.000	.000	54.570	.060	.000
.000	.000	.000	.000	55.000	.000	
2.000	.000	.000	.000	54.570	.060	.000
2.000	.000	.000	.000	55.000	.000	

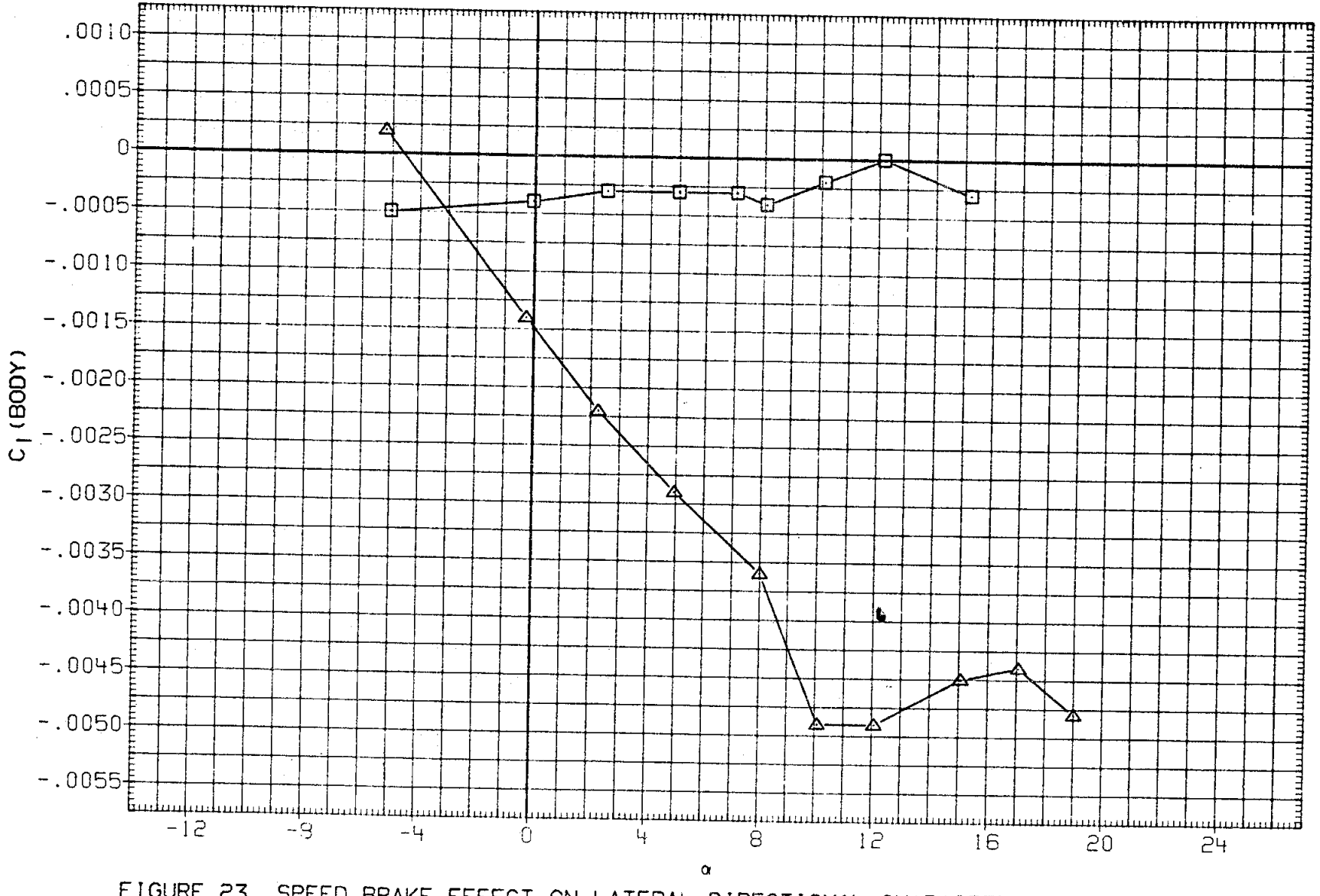

FIGURE 23. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=55

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION
RK0014	○	DATA NOT AVAILABLE
R2F098	□	AMES 118-1-11 OA145A 01
RK0024	◇	DATA NOT AVAILABLE
R2F099	△	AMES 118-1-11 OA145A 01

BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
.000	.000	.000	.000	54.570	.060	.000
.000	.000	.000	.000	55.000	.000	
2.000	.000	.000	.000	54.570	.060	.000
2.000	.000	.000	.000	55.000	.000	

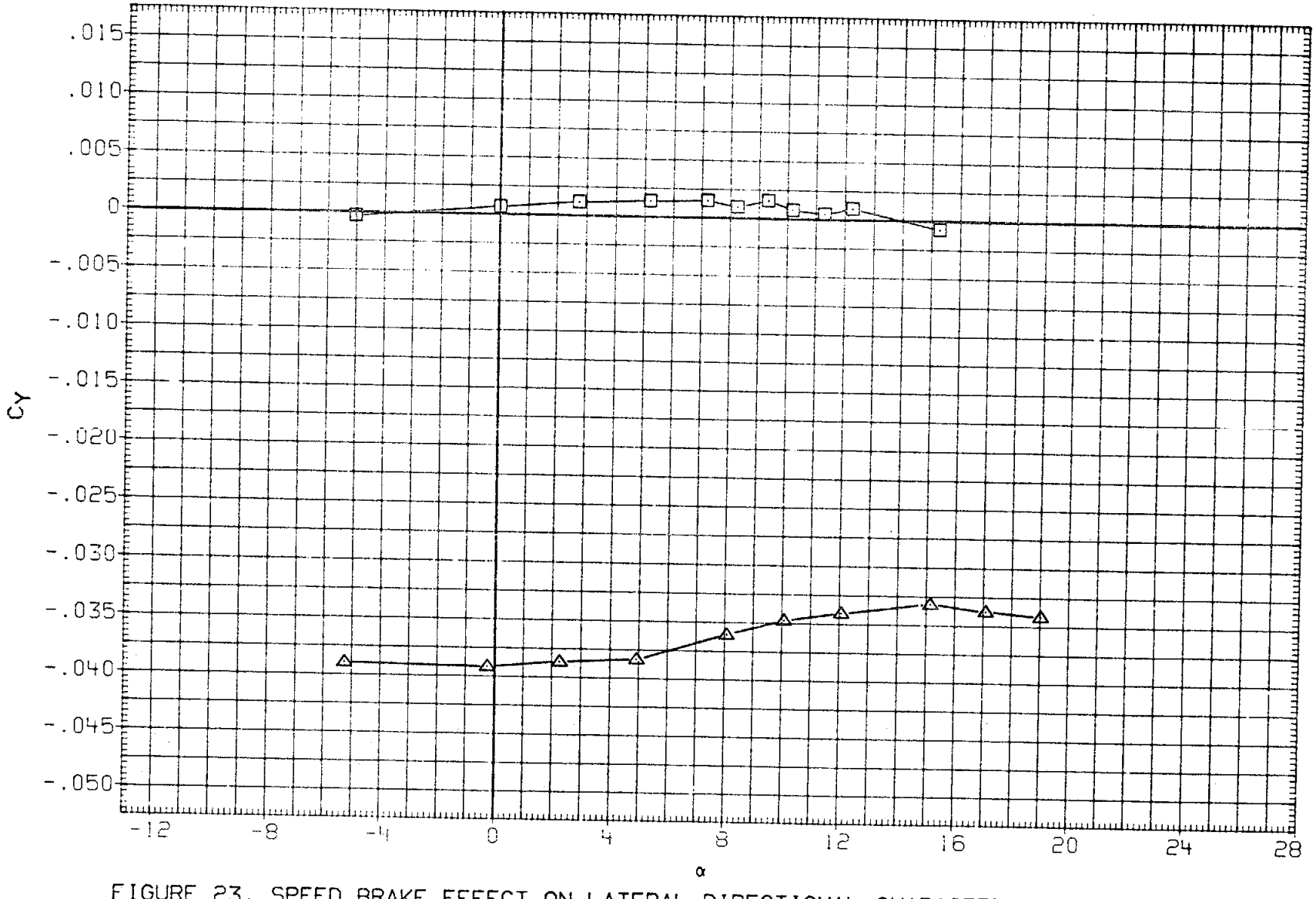

FIGURE 23. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=55

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION
RK0014	○	DATA NOT AVAILABLE
R2F098	□	AMES 118-1-11 OA145A 01
RK0024	◇	DATA NOT AVAILABLE
R2F099	△	AMES 118-1-11 OA145A 01

BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
.000	.000	.000*	.000	54.570	.060	.000
.000	.000	.000	.000	55.000	.000	
2.000	.000	.000	.000	54.570	.060	.000
2.000	.000	.000	.000	55.000	.000	

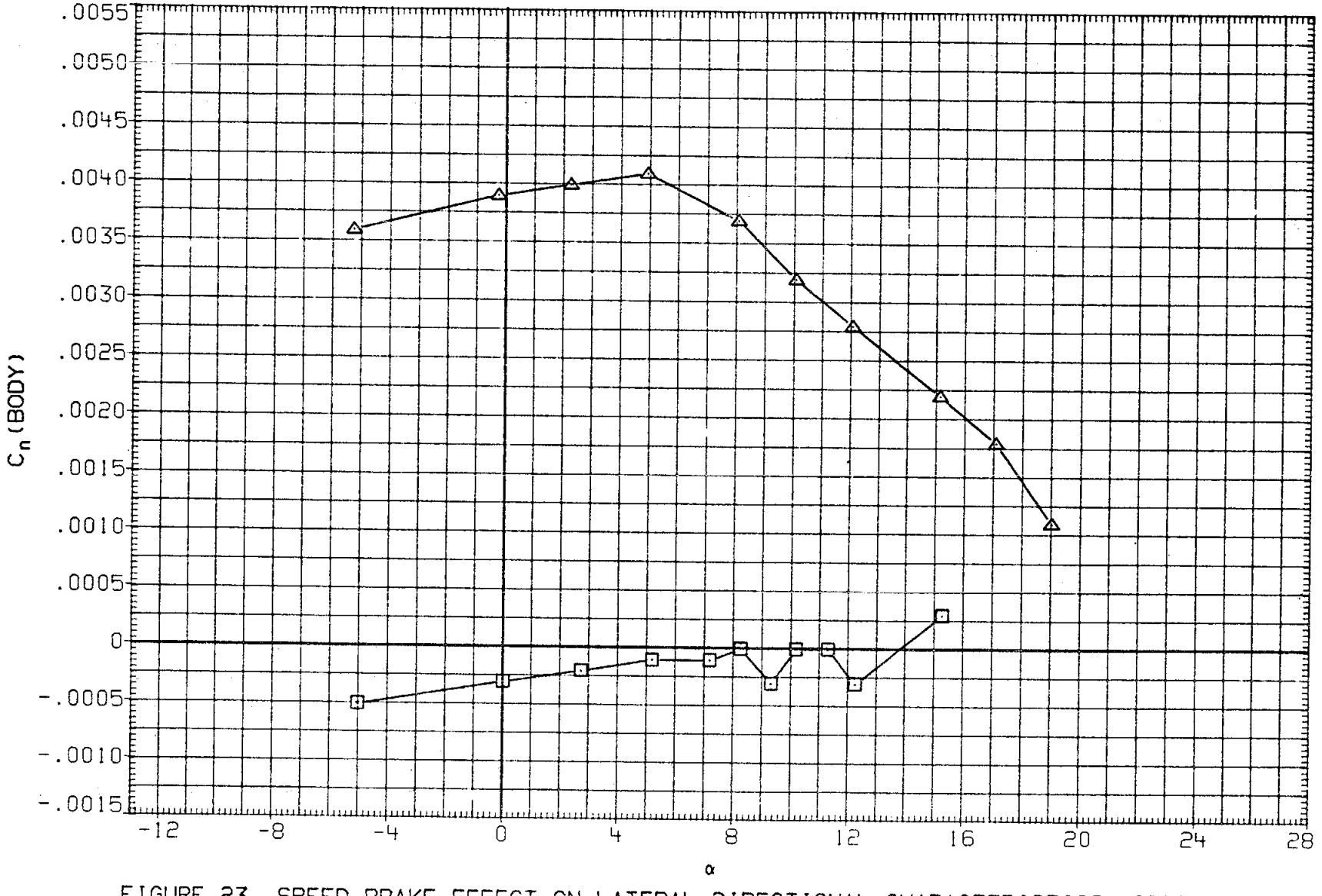

FIGURE 23. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=55

(B) MACH = .80

DATA SET	SYMBOL	CONFIGURATION
RK0014	○	DATA NOT AVAILABLE
R2F098	□	AMES 118-1-11 OA145A 01
RK0024	◇	DATA NOT AVAILABLE
R2F099	△	AMES 118-1-11 OA145A 01

BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
.000	.000	.000	.000	54.570	.060	.000
.000	.000	.000	.000	55.000	.000	
2.000	.000	.000	.000	54.570	.060	.000
2.000	.000	.000	.000	55.000	.000	

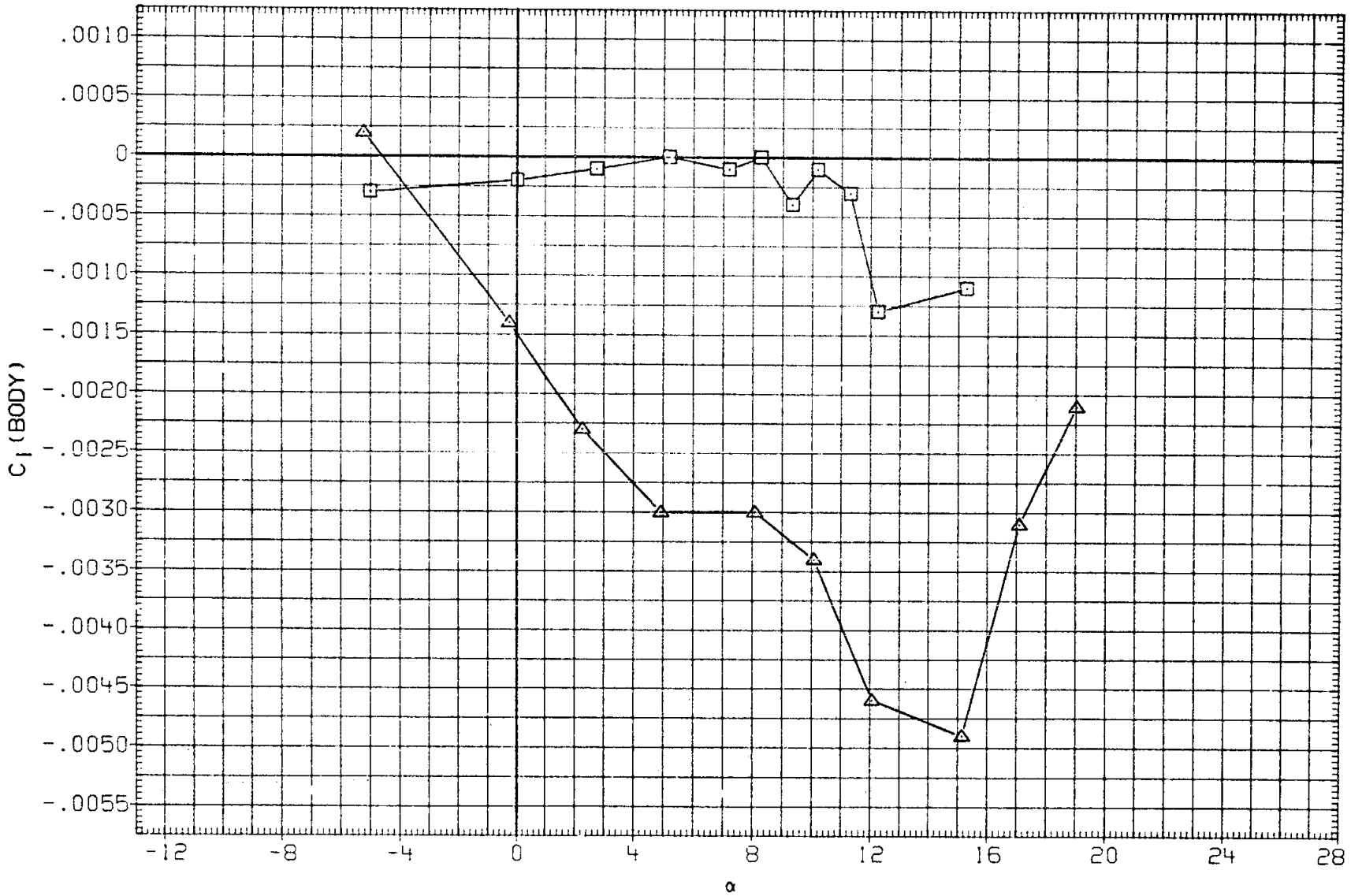

FIGURE 23. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=55

(B) MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0014	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	54.570	.060	.000
R2F098	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	55.000	.000	
RK0024	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	2.000	.000	.000	.000	54.570	.060	.000
R2F099	△	AMES 118-1-11 OA145A 01	2.000	.000	.000	.000	55.000	.000	

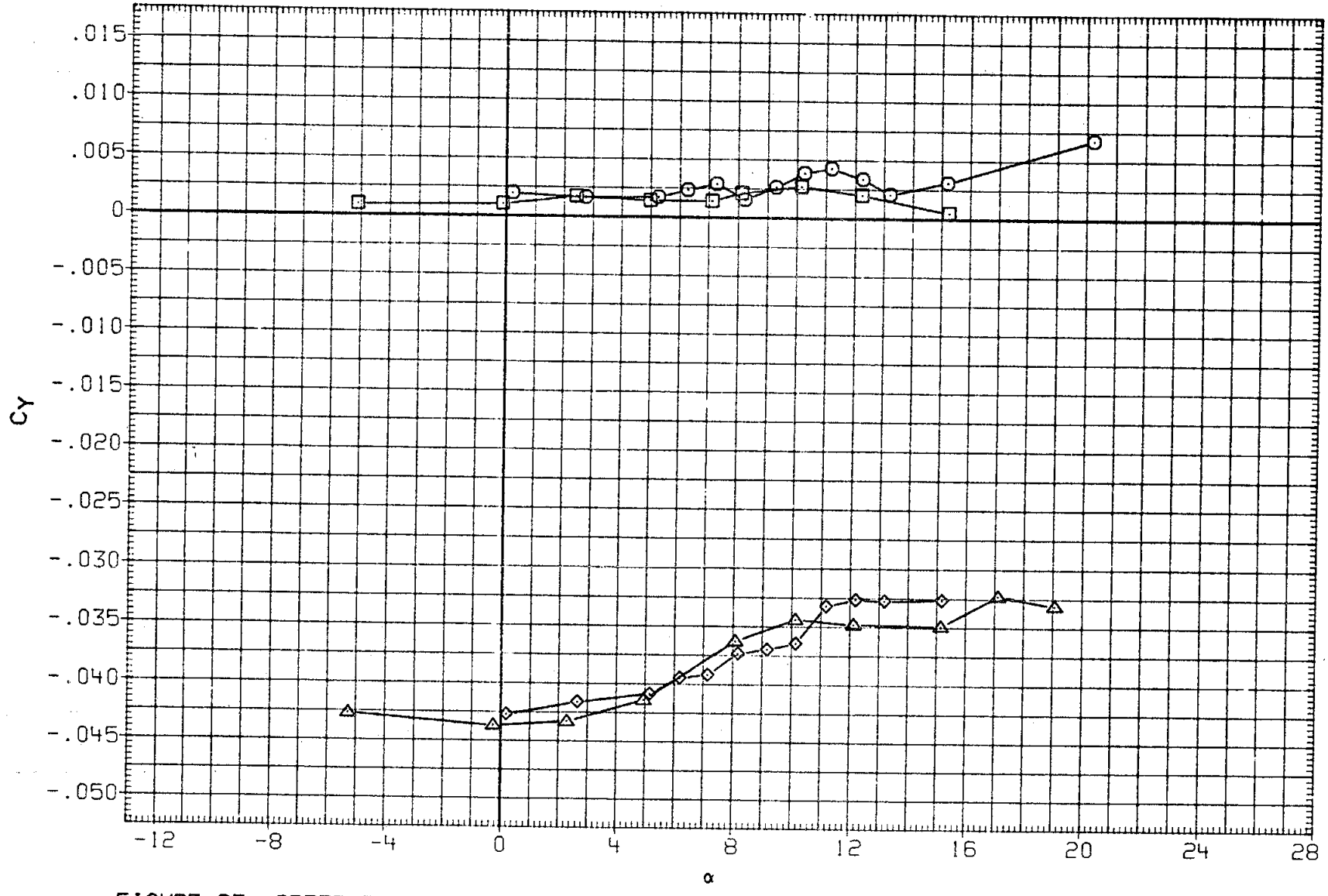

FIGURE 23. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=55

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0014	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	54.570	.060	.000
R2F098	□	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	55.000	.000	
RK0024	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.	2.000	.000	.000	.000	54.570	.060	.000
R2F099	△	AMES 118-1-11 0A145A 01	2.000	.000	.000	.000	55.000	.000	

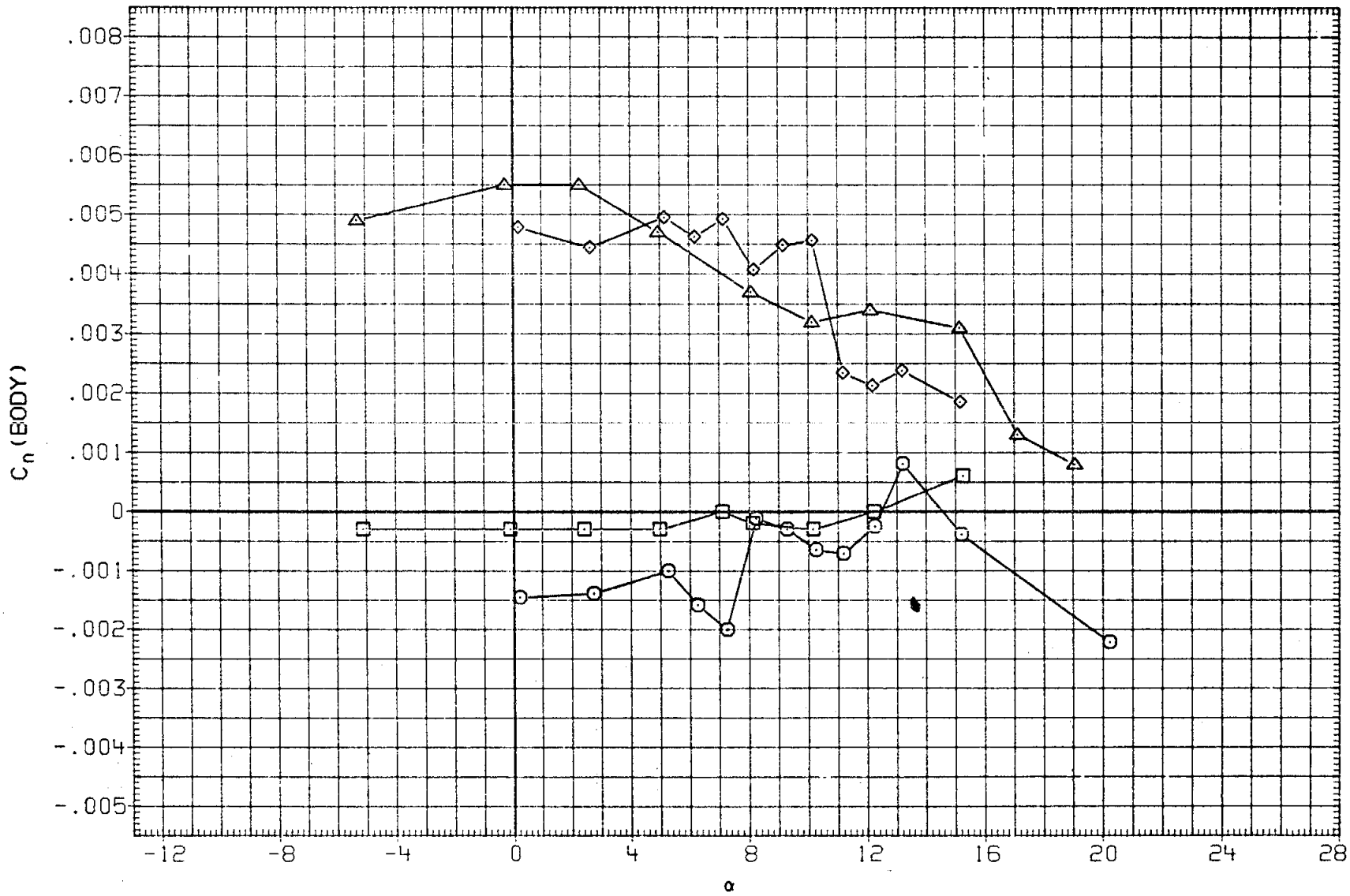

FIGURE 23. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=55

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION
RK0014	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F098	□	AMES 118-1-11 OA145A 01
RK0024	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F099	△	AMES 118-1-11 OA145A 01

BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
.000	.000	.000	.000	54.570	.060	.000
.000	.000	.000	.000	55.000	.000	
2.000	.000	.000	.000	54.570	.060	.000
2.000	.000	.000	.000	55.000	.000	

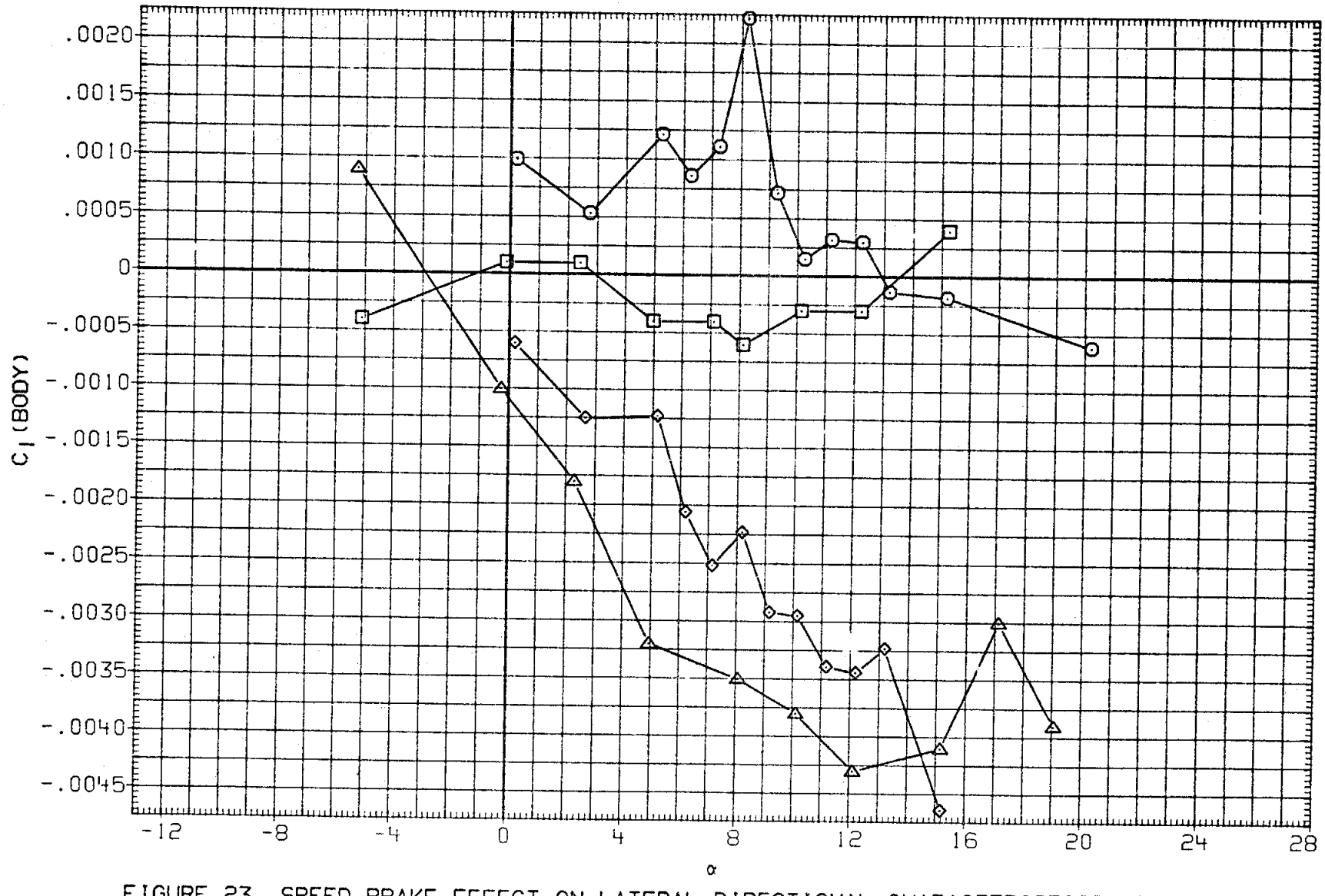

FIGURE 23. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=55

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0014	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	54.570	.060	.000
R2F098	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	55.000	.000	
RK0024	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	2.000	.000	.000	.000	54.570	.060	.000
R2F099	△	AMES 118-1-11 OA145A 01	2.000	.000	.000	.000	55.000	.000	

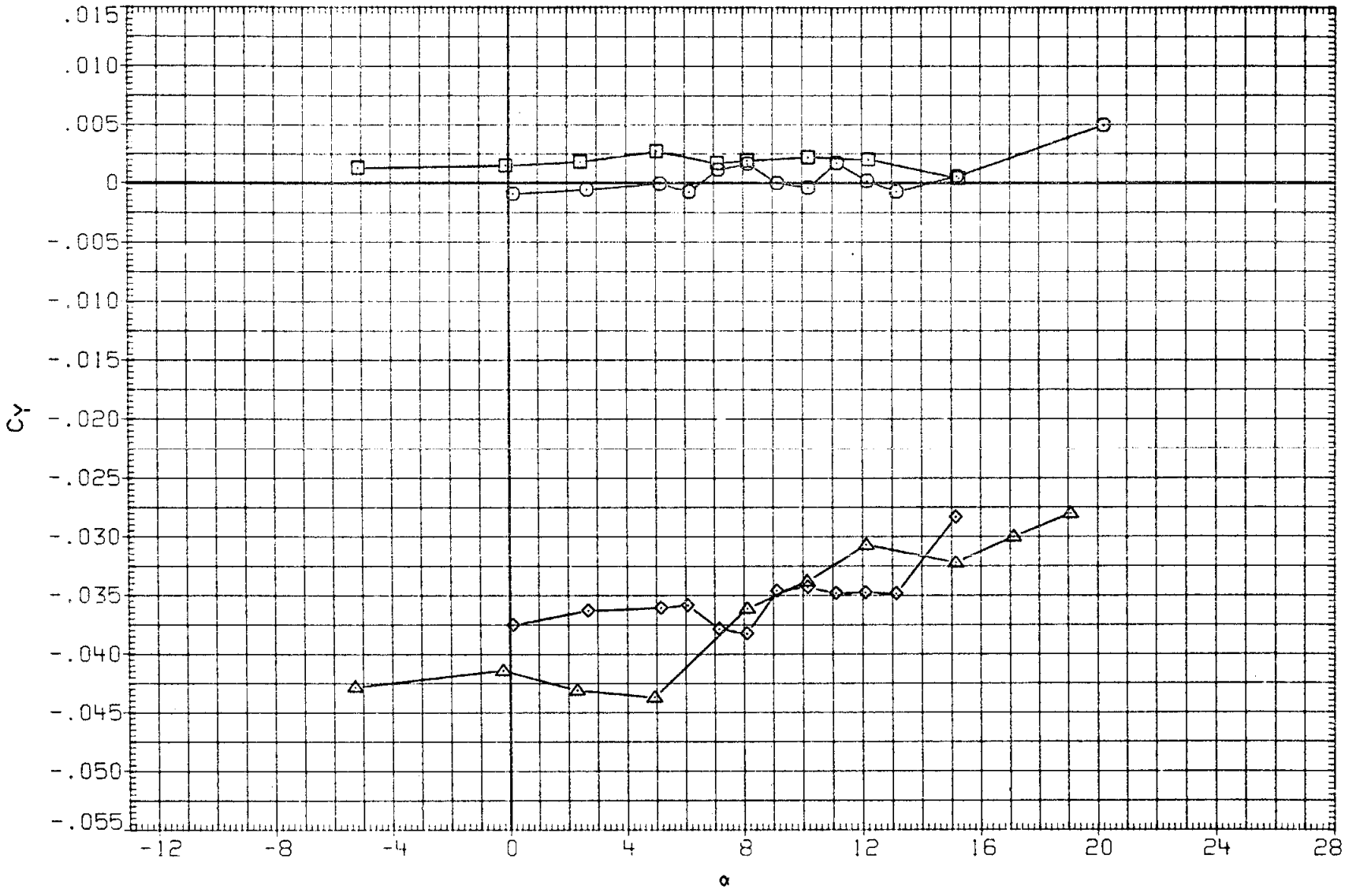

FIGURE 23. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=55

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION
RK0014	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F098	□	AMES 118-1-11 OA145A 01
RK0024	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F099	△	AMES 118-1-11 OA145A 01

BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
.000	.000	.000	.000	54.570	.060	.000
.000	.000	.000	.000	55.000	.000	
2.000	.000	.000	.000	54.570	.060	.000
2.000	.000	.000	.000	55.000	.000	

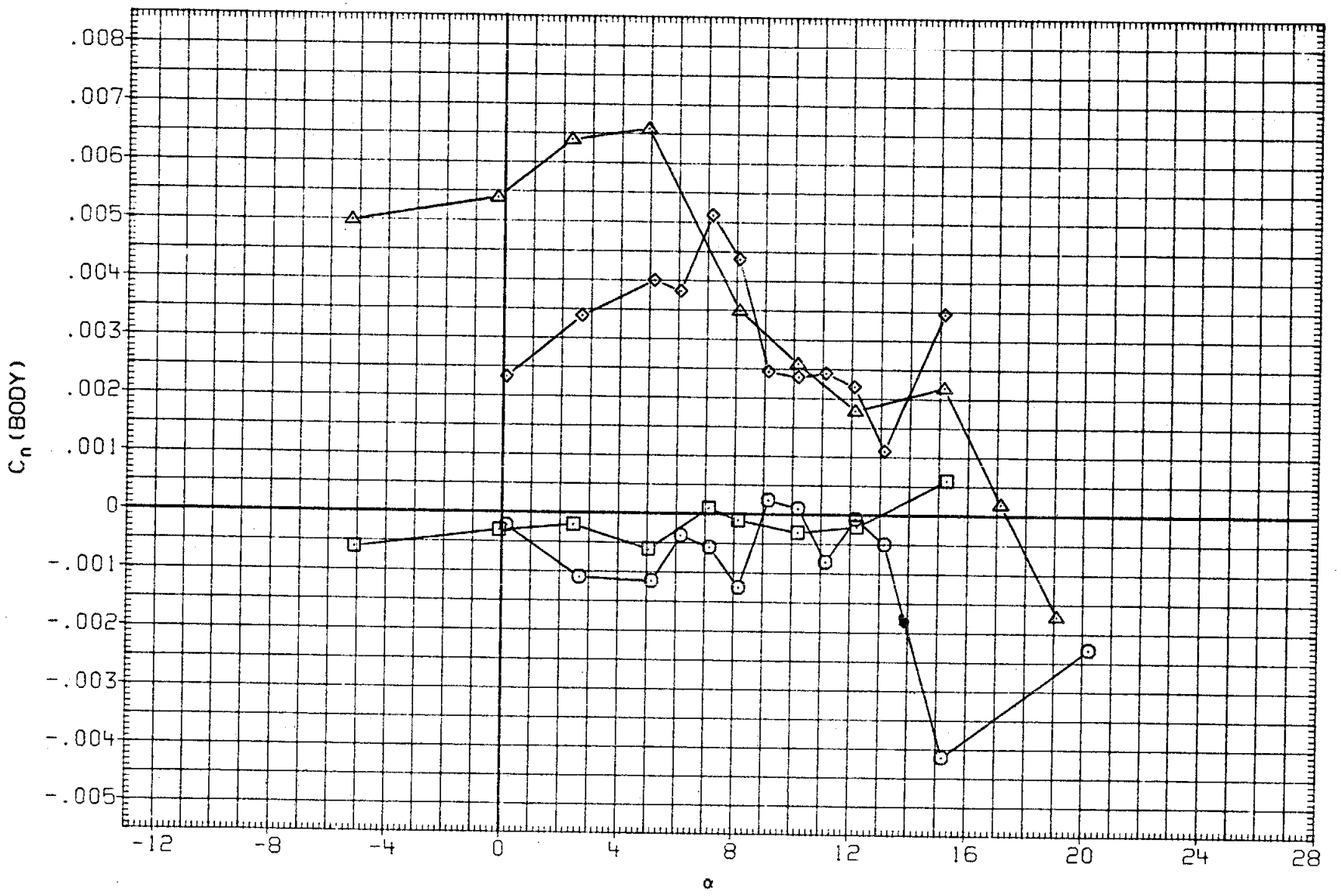

FIGURE 23. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=55

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0014	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	54.570	.060	.000
R2F098	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	55.000	.000	
RK0024	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	2.000	.000	.000	.000	54.570	.060	.000
R2F099	△	AMES 118-1-11 OA145A 01	2.000	.000	.000	.000	55.000	.000	

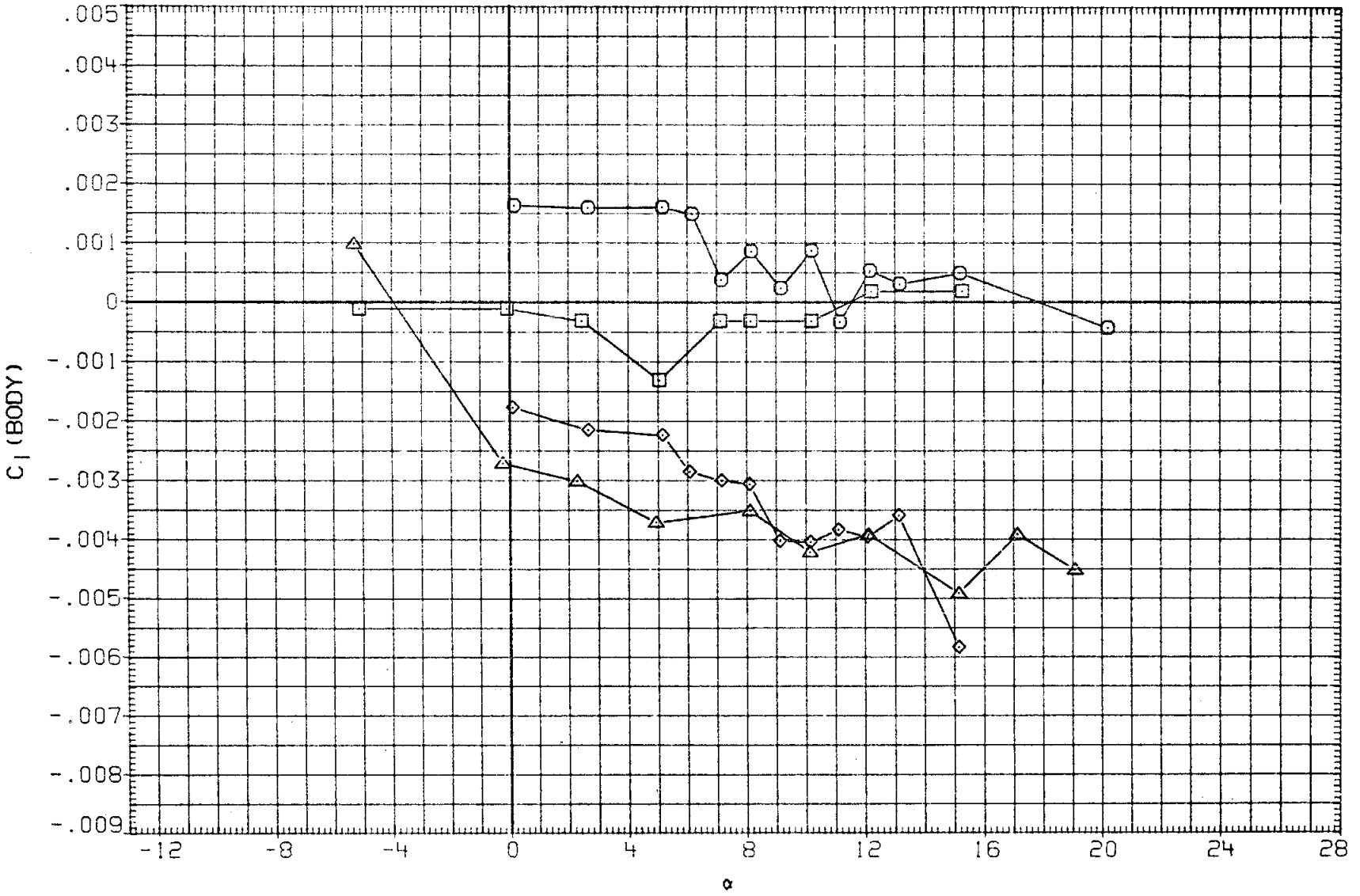

FIGURE 23. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=55

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION
RK0014	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F098	□	DATA NOT AVAILABLE
RK0024	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F099	△	DATA NOT AVAILABLE

BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
.000	.000	.000	.000	54.570	.060	.000
.000	.000	.000	.000	55.000	.000	
2.000	.000	.000	.000	54.570	.060	.000
2.000	.000	.000	.000	55.000	.000	

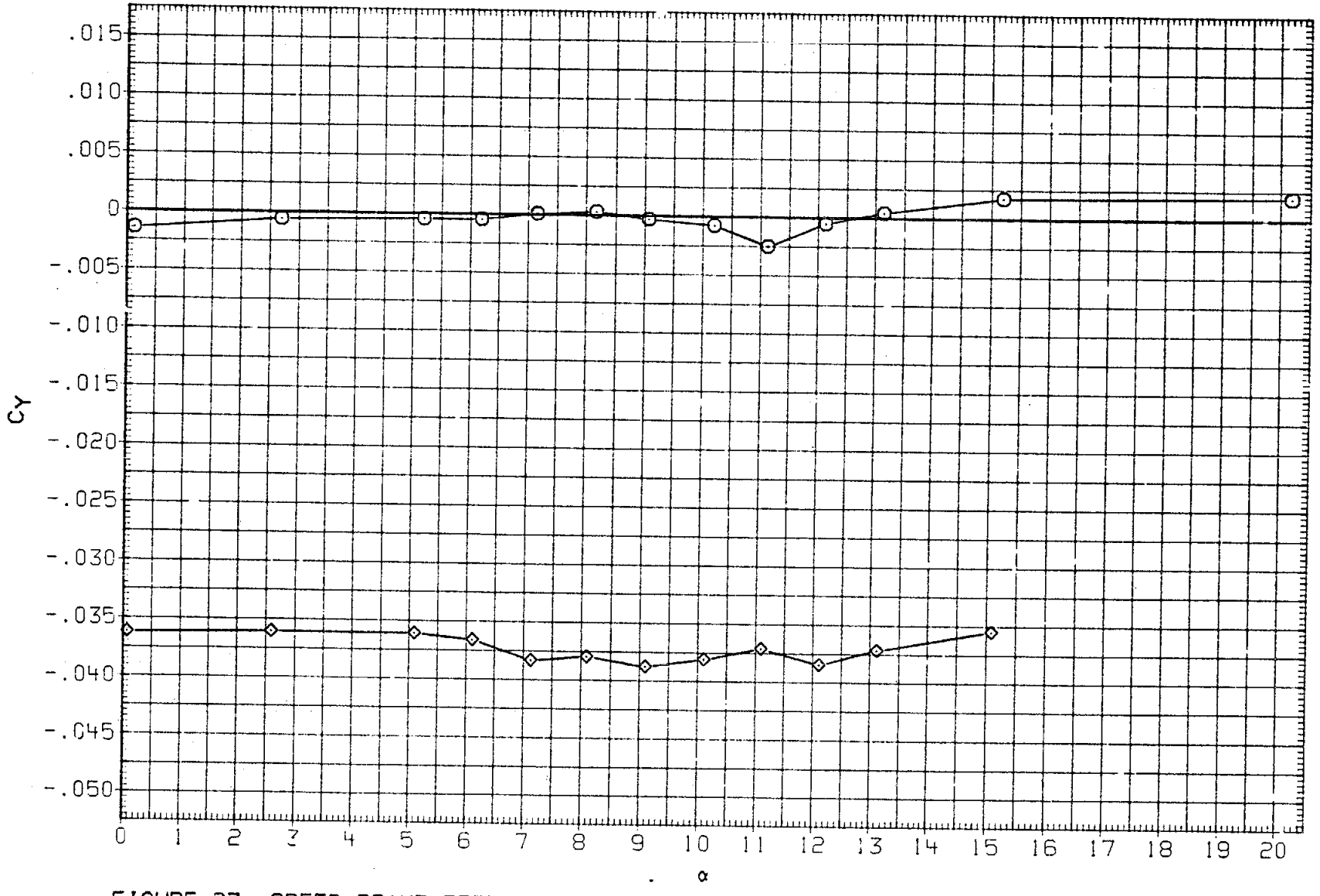

FIGURE 23. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=55

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0014	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	54.570	.060	.000
R2F098	□	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	
RK0024	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	2.000	.000	.000	.000	54.570	.060	.000
R2F099	△	DATA NOT AVAILABLE	2.000	.000	.000	.000	55.000	.000	

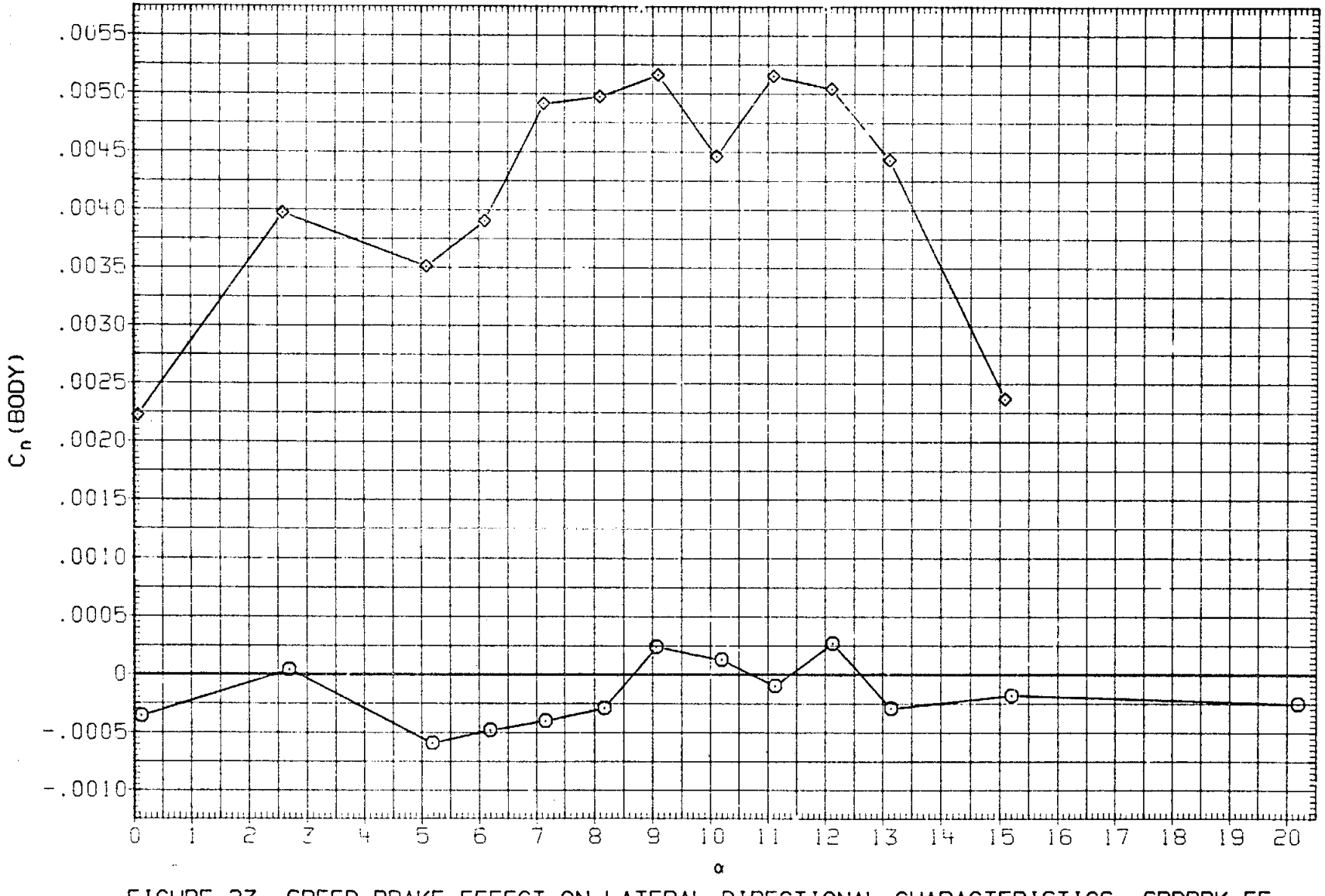

FIGURE 23. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=55

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0014	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	54.570	.060	.000
R2F098	□	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	
RK0024	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.	2.000	.000	.000	.000	54.570	.060	.000
R2F099	△	DATA NOT AVAILABLE	2.000	.000	.000	.000	55.000	.000	

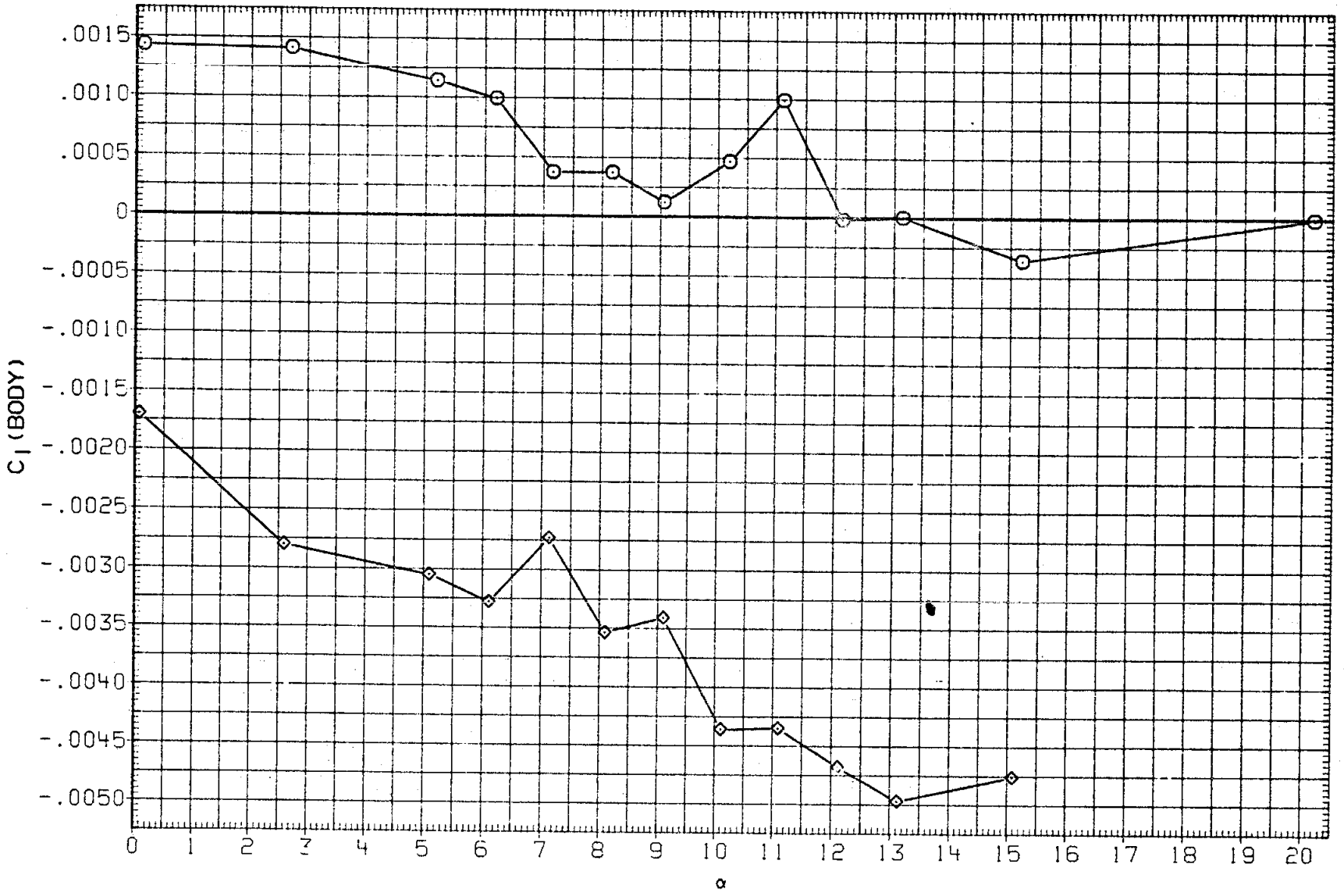

FIGURE 23. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=55

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0014	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	54.570	.060	.000
R2F098	□	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	
RK0024	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.	2.000	.000	.000	.000	54.570	.060	.000
R2F099	△	DATA NOT AVAILABLE	2.000	.000	.000	.000	55.000	.000	

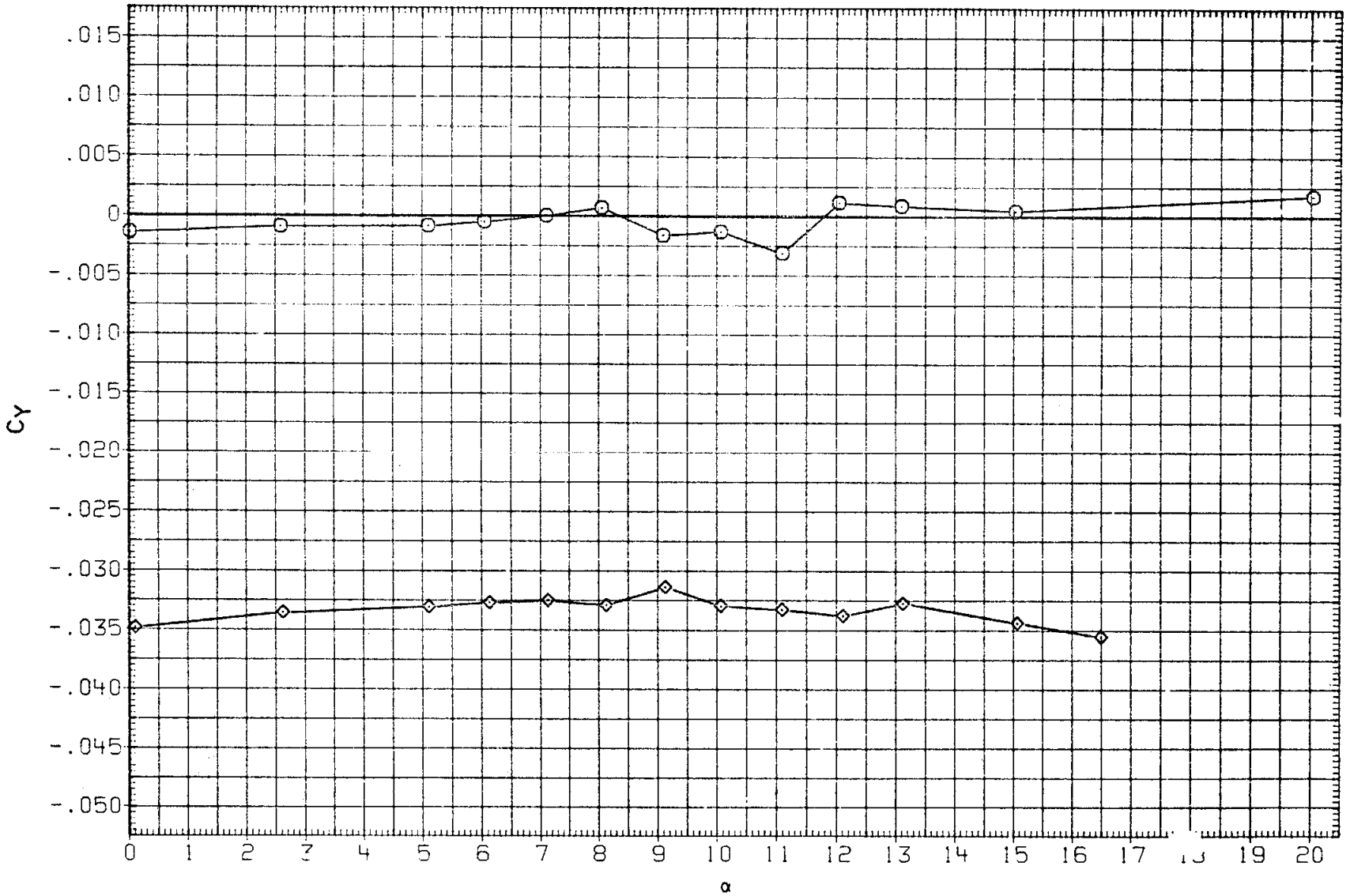

FIGURE 23. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=55

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION
RK0014	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F098	□	DATA NOT AVAILABLE
RK0024	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F099	△	DATA NOT AVAILABLE

BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
.000	.000	.000	.000	54.570	.060	.000
.000	.000	.000	.000	55.000	.000	
2.000	.000	.000	.000	54.570	.060	.000
2.000	.000	.000	.000	55.000	.000	

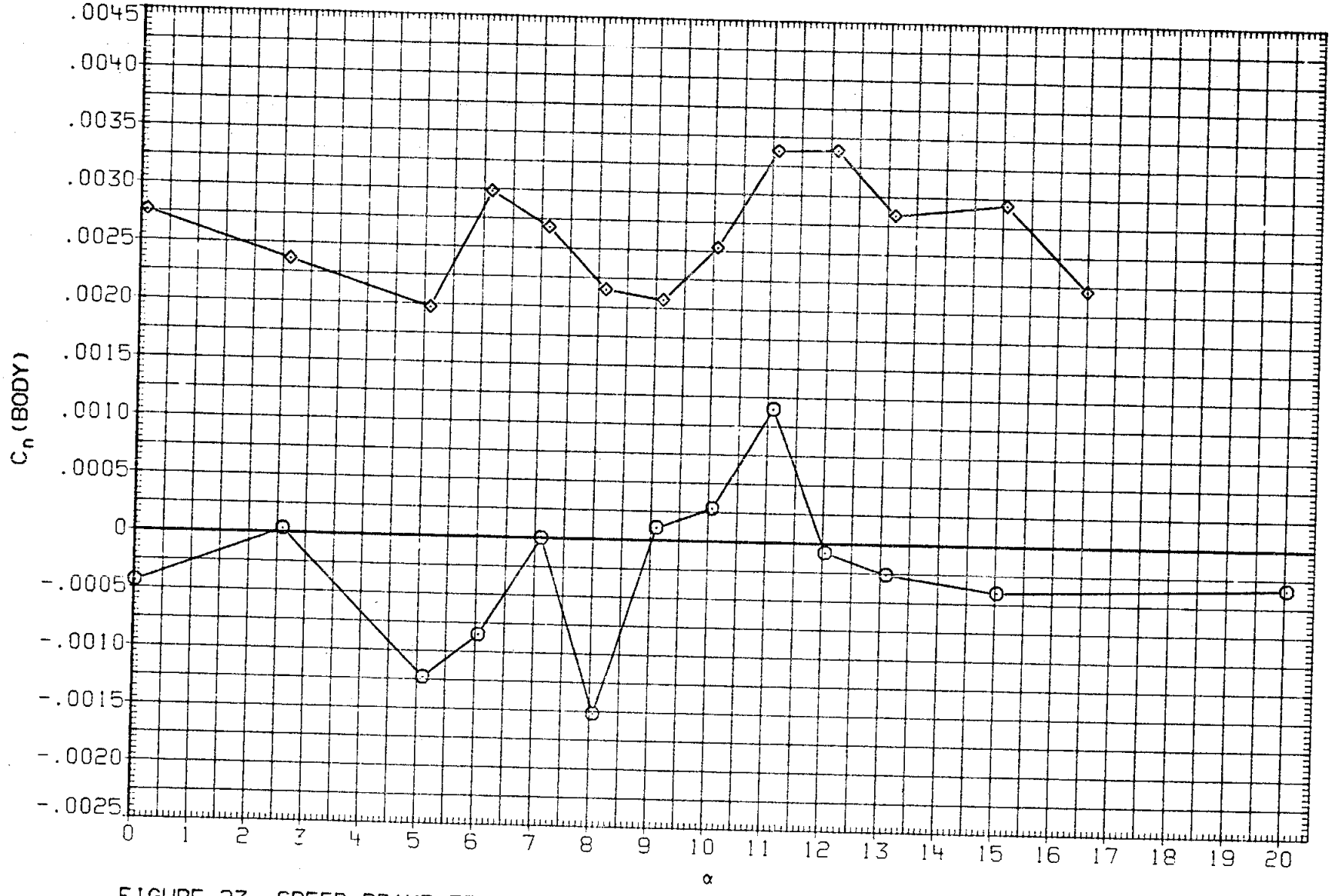

FIGURE 23. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=55

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0014	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	54.570	.060	.000
R2F098	□	DATA NOT AVAILABLE	.000	.000	.000	.000	55.000	.000	
RK0024	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	2.000	.000	.000	.000	54.570	.060	.000
R2F099	△	DATA NOT AVAILABLE	2.000	.000	.000	.000	55.000	.000	

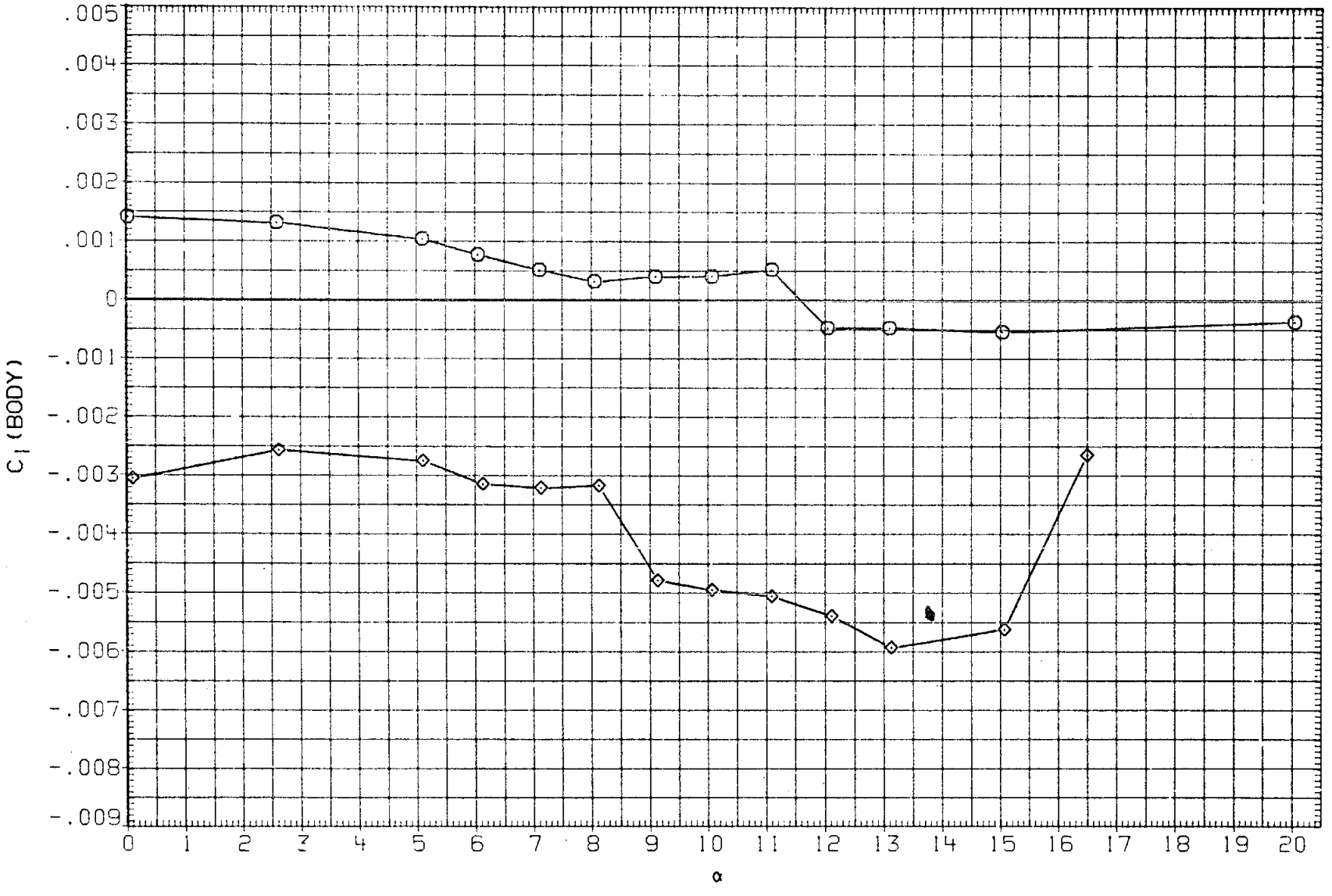

FIGURE 23. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=55

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0014	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	54.570	.060	.000
R2F098	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	55.000	.000	
RK0024	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	2.000	.000	.000	.000	54.570	.060	.000
R2F099	△	DATA NOT AVAILABLE	2.000	.000	.000	.000	55.000	.000	

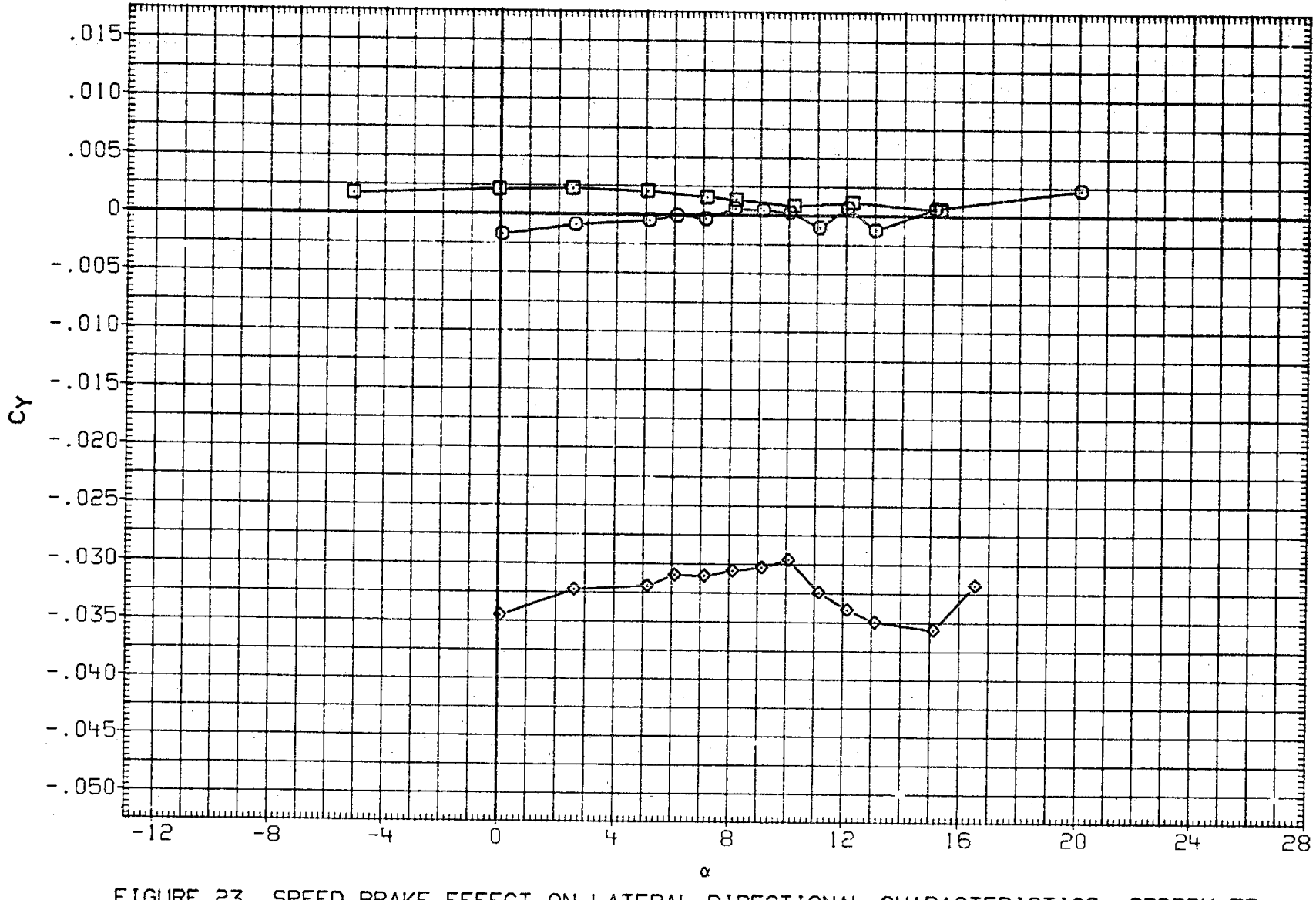

FIGURE 23. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=55

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0014	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	54.570	.060	.000
R2F098	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	55.000	.000	
RK0024	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	2.000	.000	.000	.000	54.570	.060	.000
R2F099	△	DATA NOT AVAILABLE	2.000	.000	.000	.000	55.000	.000	

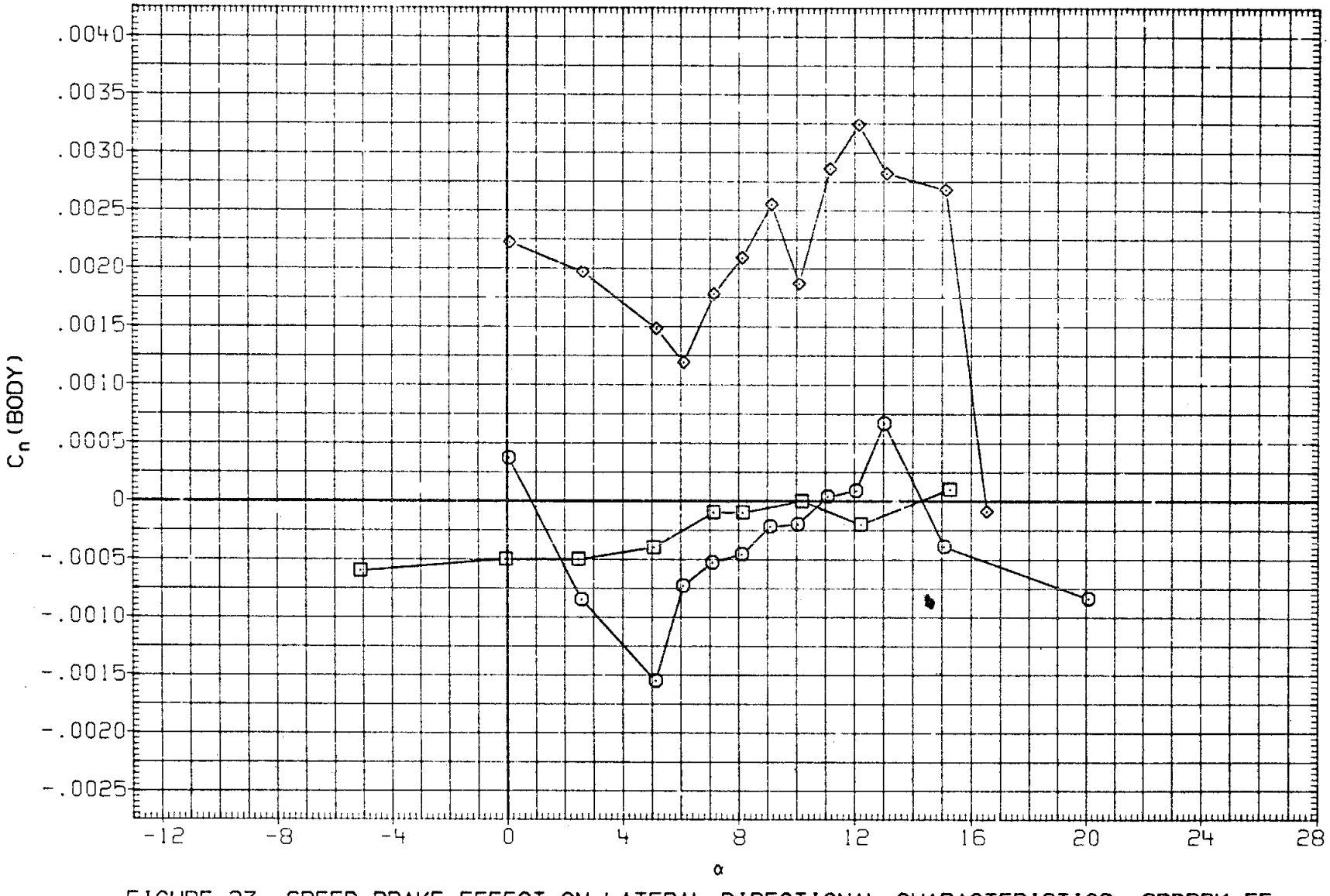

FIGURE 23. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=55

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0014	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	54.570	.060	.000
R2F098	□	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	55.000	.000	
RK0024	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.	2.000	.000	.000	.000	54.570	.060	.000
R2F099	△	DATA NOT AVAILABLE	2.000	.000	.000	.000	55.000	.000	

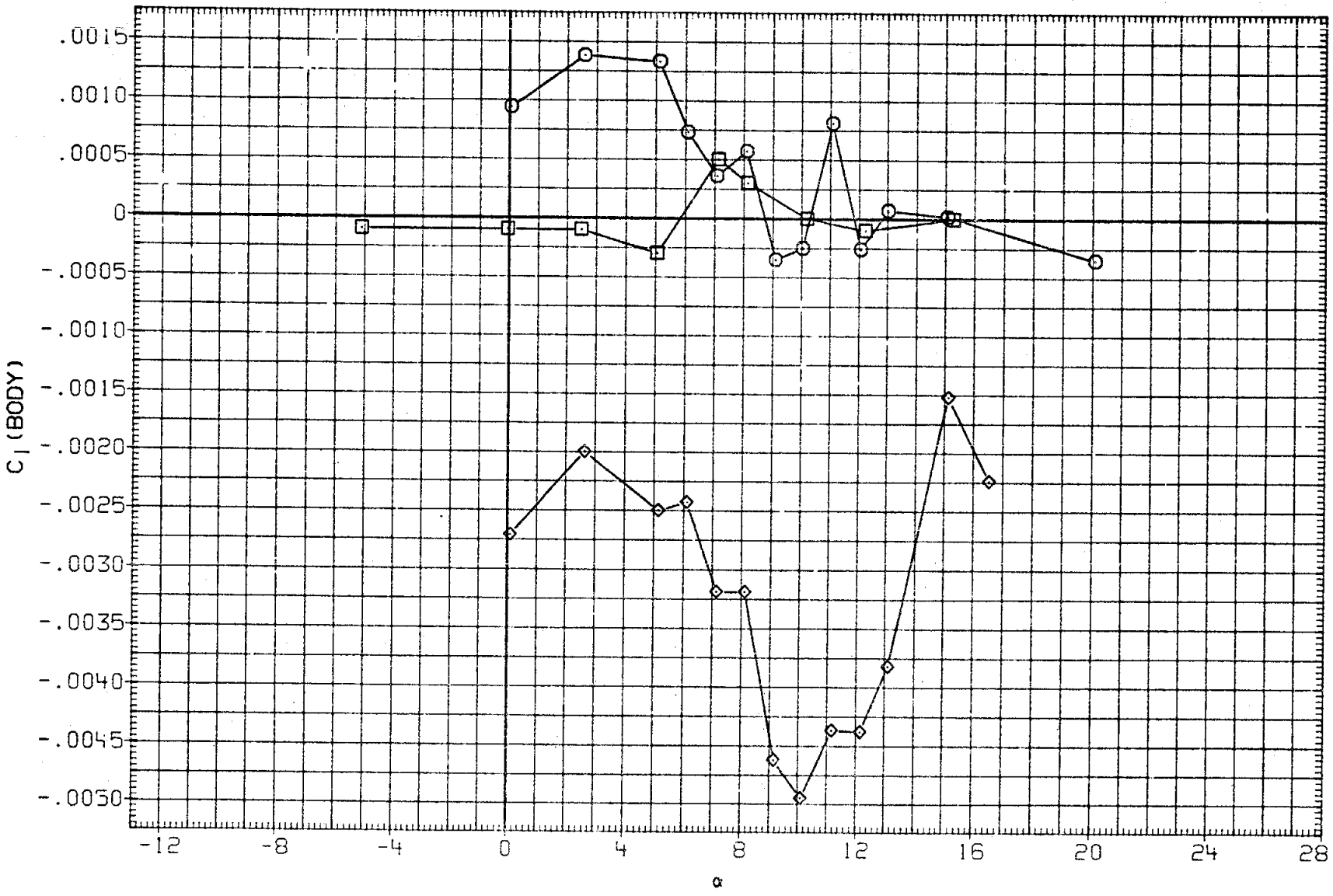

FIGURE 23. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=55

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0014	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	54.570	.060	.000
R2F098	□	AMES 11B-1-11 OA145A 01	.000	.000	.000	.000	55.000	.000	
RK0024	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	2.000	.000	.000	.000	54.570	.060	.000
R2F099	△	AMES 11B-1-11 OA145A 01	2.000	.000	.000	.000	55.000	.000	

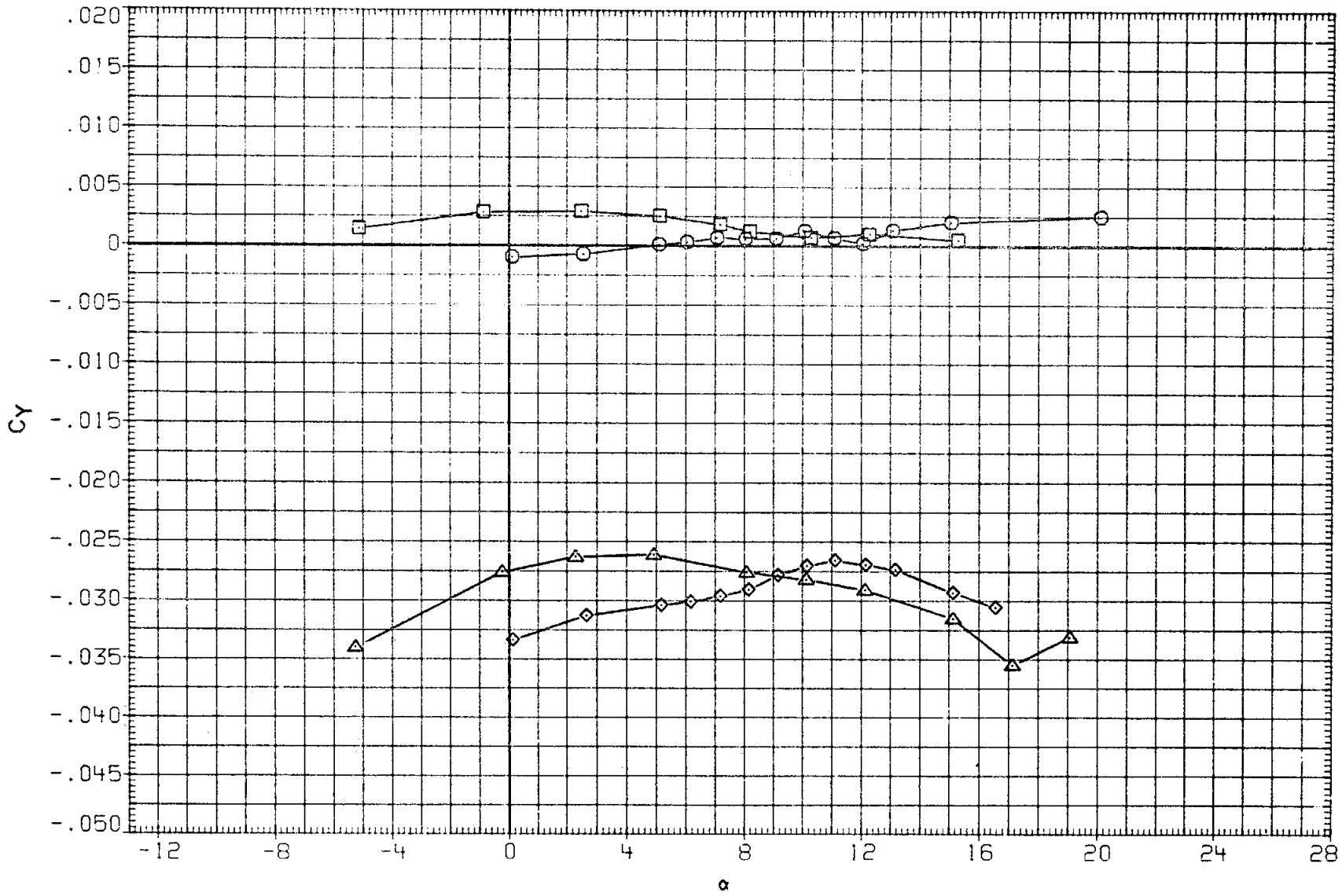

FIGURE 23. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=55

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0014	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	54.570	.060	.000
R2F098	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	55.000	.000	
RK0024	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	2.000	.000	.000	.000	54.570	.060	.000
R2F099	△	AMES 118-1-11 OA145A 01	2.000	.000	.000	.000	55.000	.000	

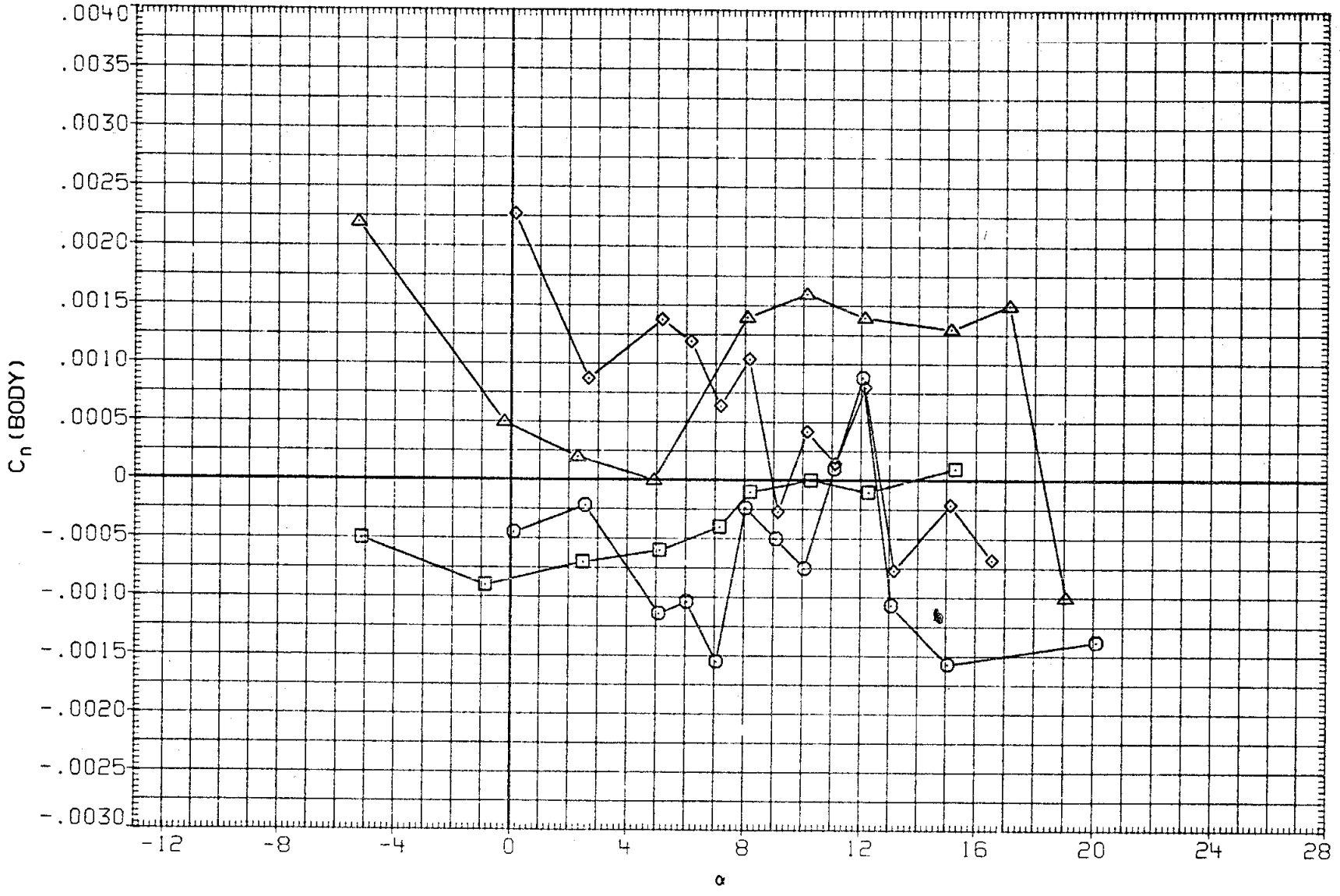

FIGURE 23. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=55

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0014	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	54.570	.060	.000
R2F098	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	55.000	.000	
RK0024	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	2.000	.000	.000	.000	54.570	.060	.000
R2F099	△	AMES 118-1-11 OA145A 01	2.000	.000	.000	.000	55.000	.000	

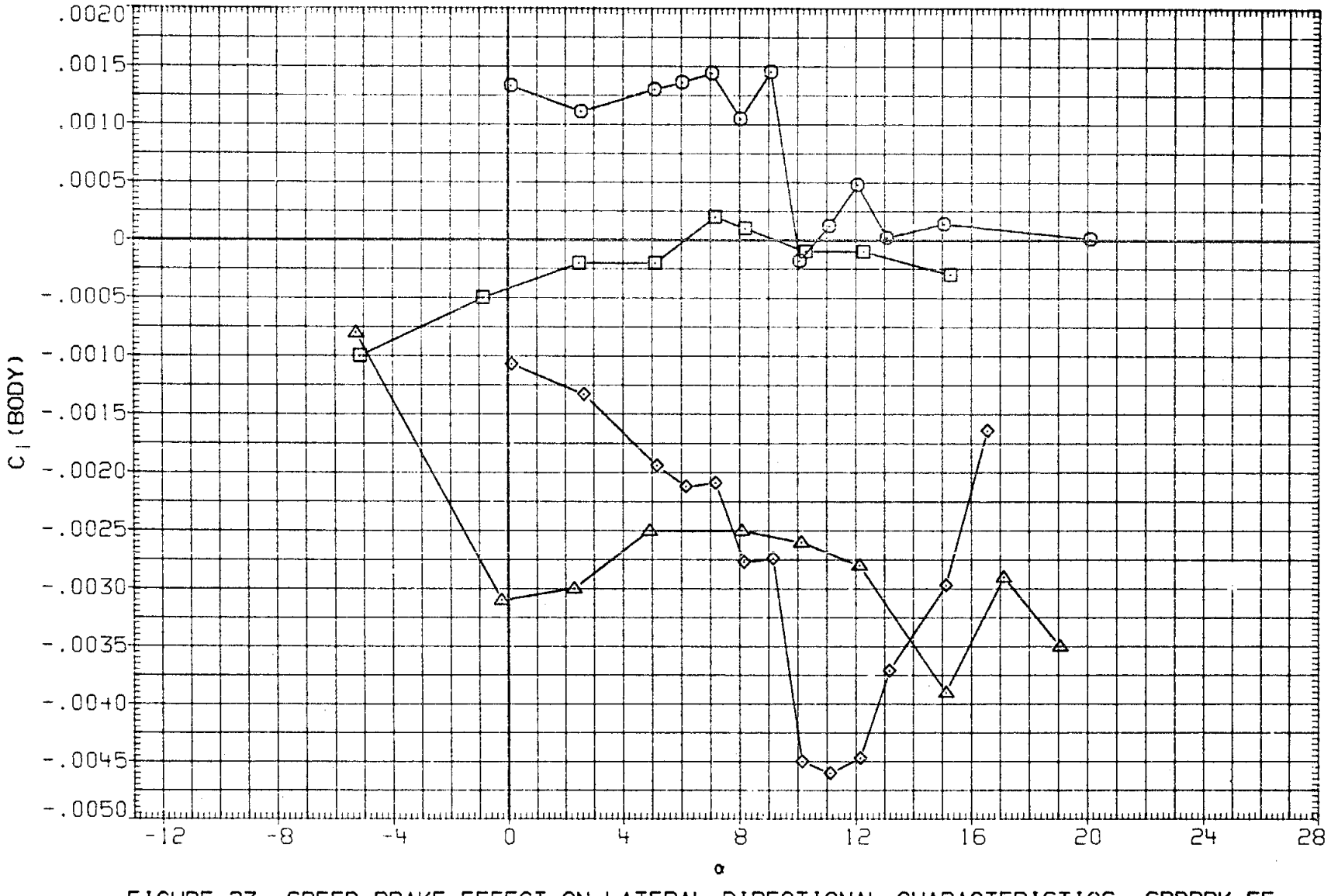

FIGURE 23. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=55

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0014	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	54.570	.060	.000
R2F098	□	AMES 118-1-11 OA145A 0!	.000	.000	.000	.000	55.000	.000	
RK0024	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	2.000	.000	.000	.000	54.570	.060	.000
R2F099	△	AMES 118-1-11 OA145A 0!	2.000	.000	.000	.000	55.000	.000	

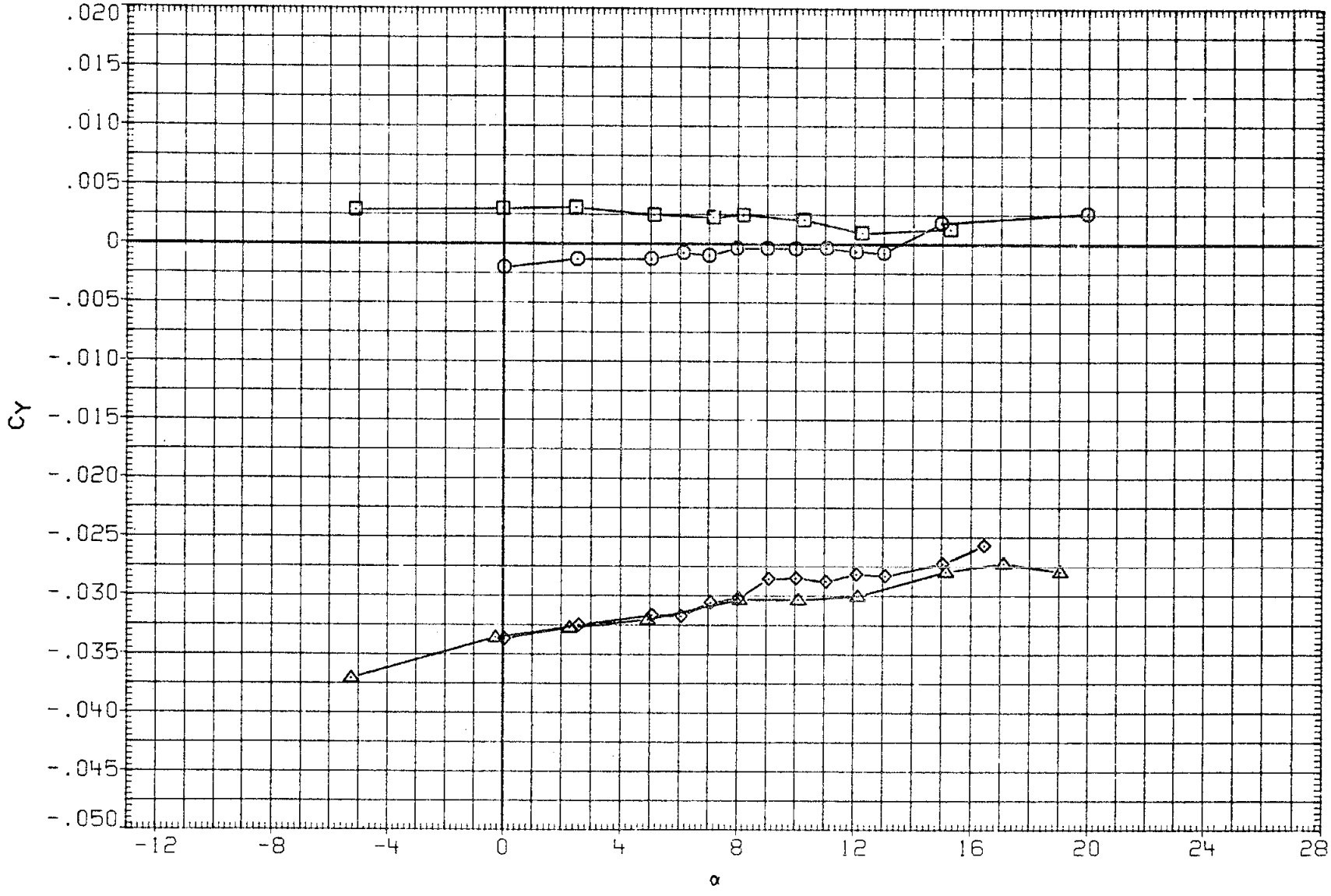

FIGURE 23. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=55

(I)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION
RK0014	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.
R2F098	□	AMES 118-1-11 0A145A 01
RK0024	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.
R2F099	△	AMES 118-1-11 0A145A 01

BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
.000	.000	.000	.000	54.570	.060	.000
.000	.000	.000	.000	55.000	.000	
2.000	.000	.000	.000	54.570	.060	.000
2.000	.000	.000	.000	55.000	.000	

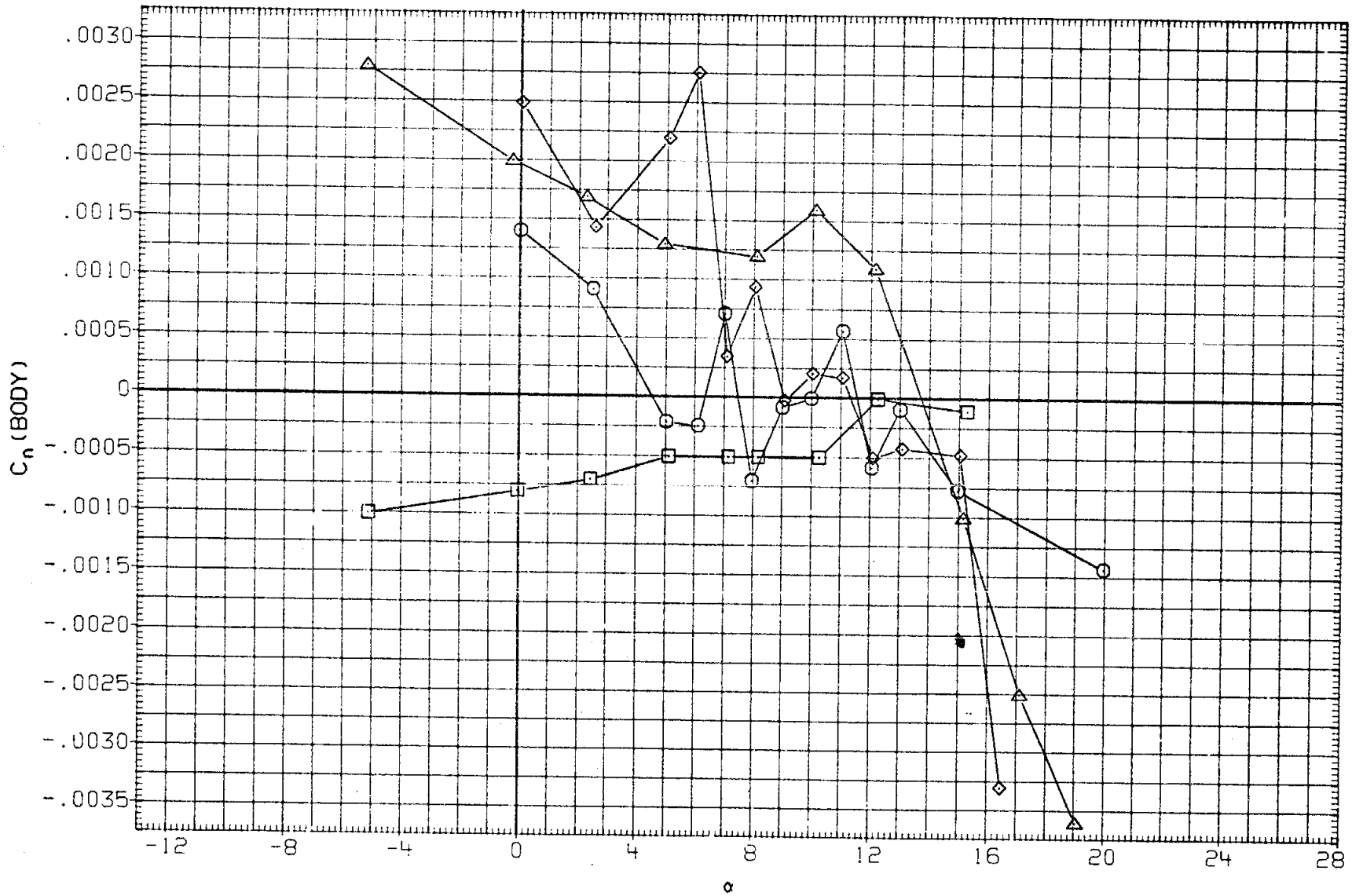

FIGURE 23. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=55

(I)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION
RK0014	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.
R2F098	□	AMES 118-1-11 0A145A 01
RK0024	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.
R2F099	△	AMES 118-1-11 0A145A 01

BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
.000	.000	.000	.000	54.570	.060	.000
.000	.000	.000	.000	55.000	.000	
2.000	.000	.000	.000	54.570	.060	.000
2.000	.000	.000	.000	55.000	.000	

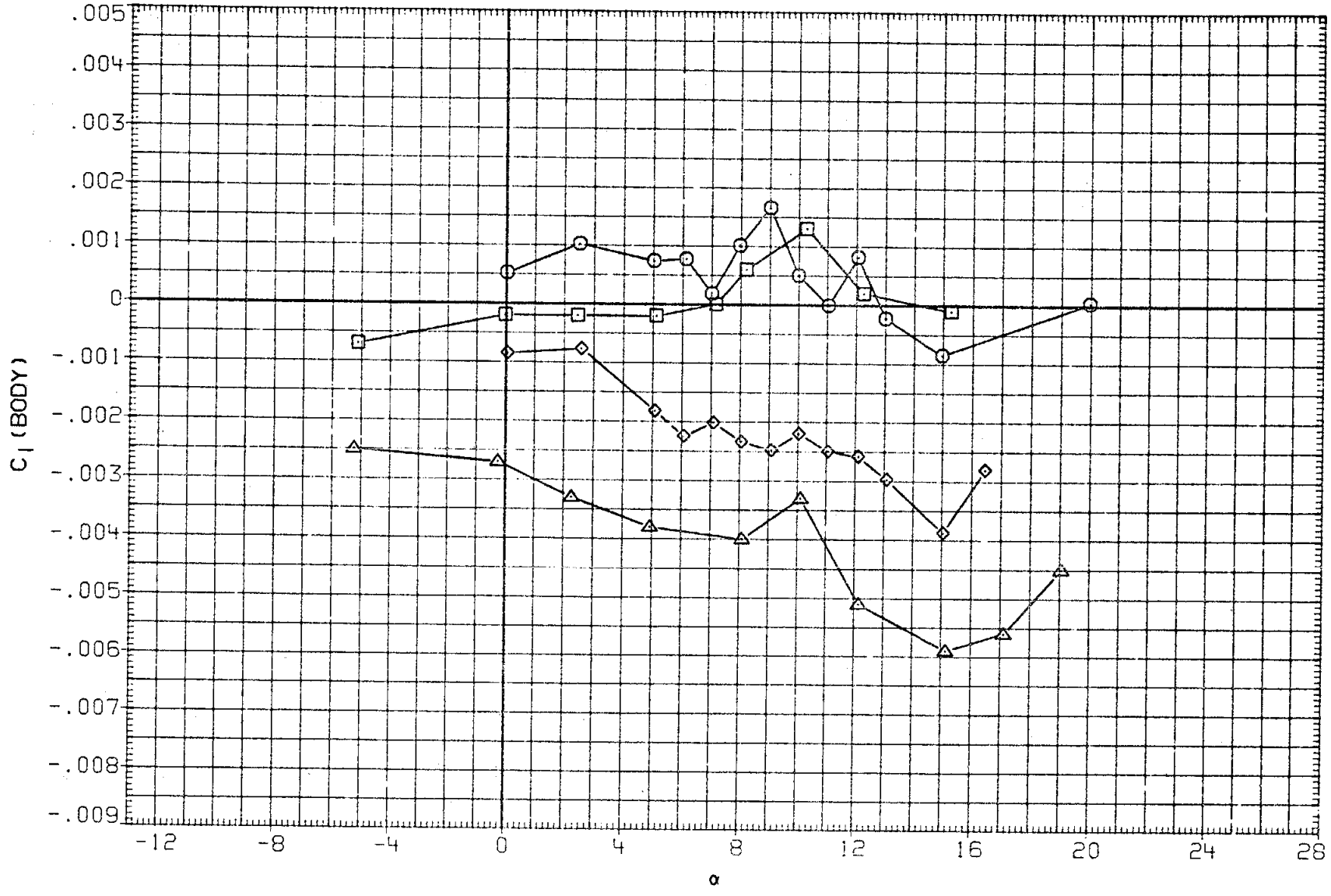

FIGURE 23. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=55

(I)MACH = 1.30

DATA S	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0014	○	DATA NOT AVAILABLE	.000	.000	.000	.000	54.570	.060	.000
R2F098	□	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	55.000	.000	
RK0024	◇	DATA NOT AVAILABLE	2.000	.000	.000	.000	54.570	.060	.000
R2F099	△	AMES 118-1-11 OA145A 01	2.000	.000	.000	.000	55.000	.000	

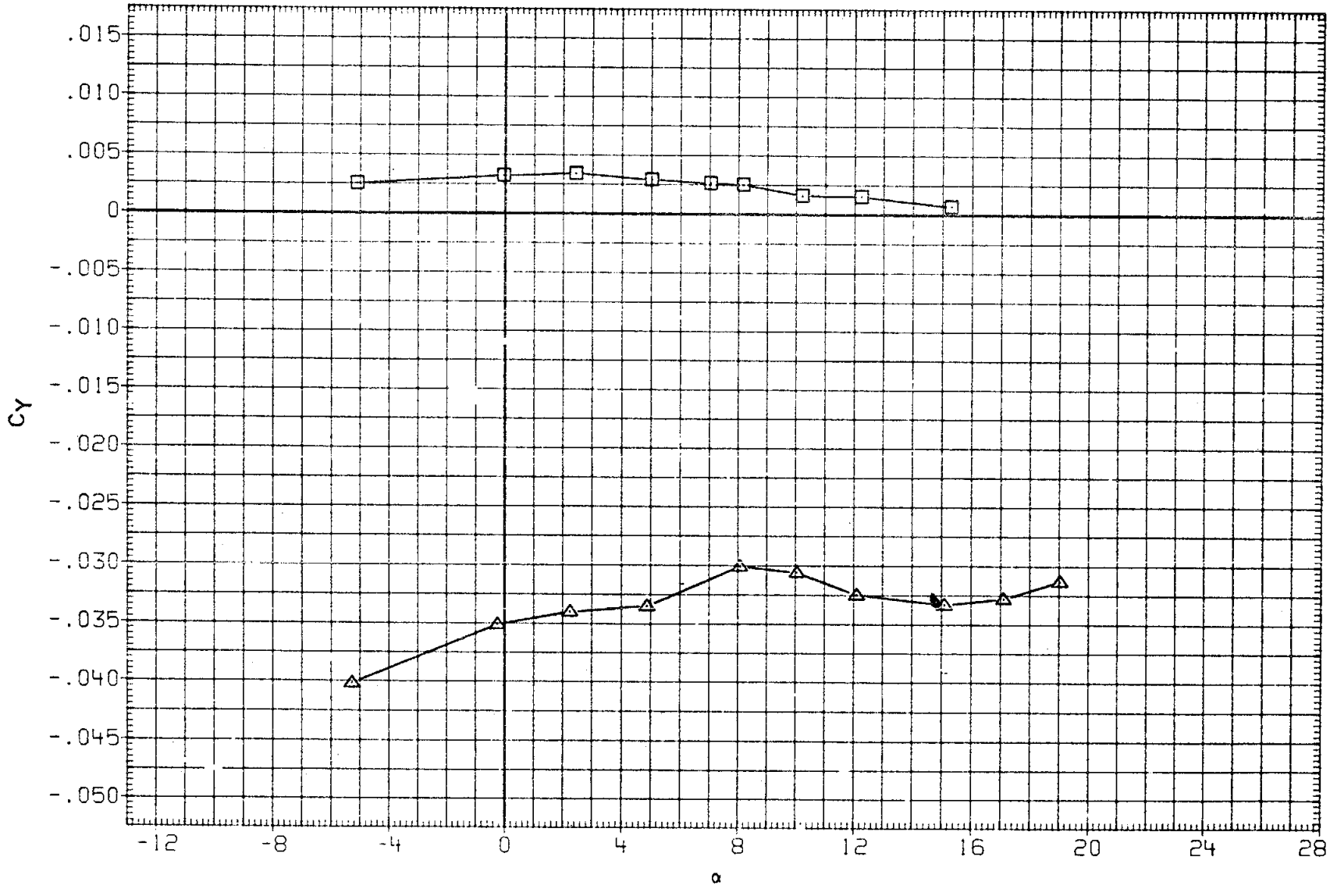

FIGURE 23. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=55

(J)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION
RK0014	○	DATA NOT AVAILABLE
R2F098	□	AMES 118-1-11 OA145A 01
RK0024	◇	DATA NOT AVAILABLE
R2F099	△	AMES 118-1-11 OA145A 01

BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
.000	.000	.000	.000	54.570	.060	.000
.000	.000	.000	.000	55.000	.000	
2.000	.000	.000	.000	54.570	.060	.000
2.000	.000	.000	.000	55.000	.000	

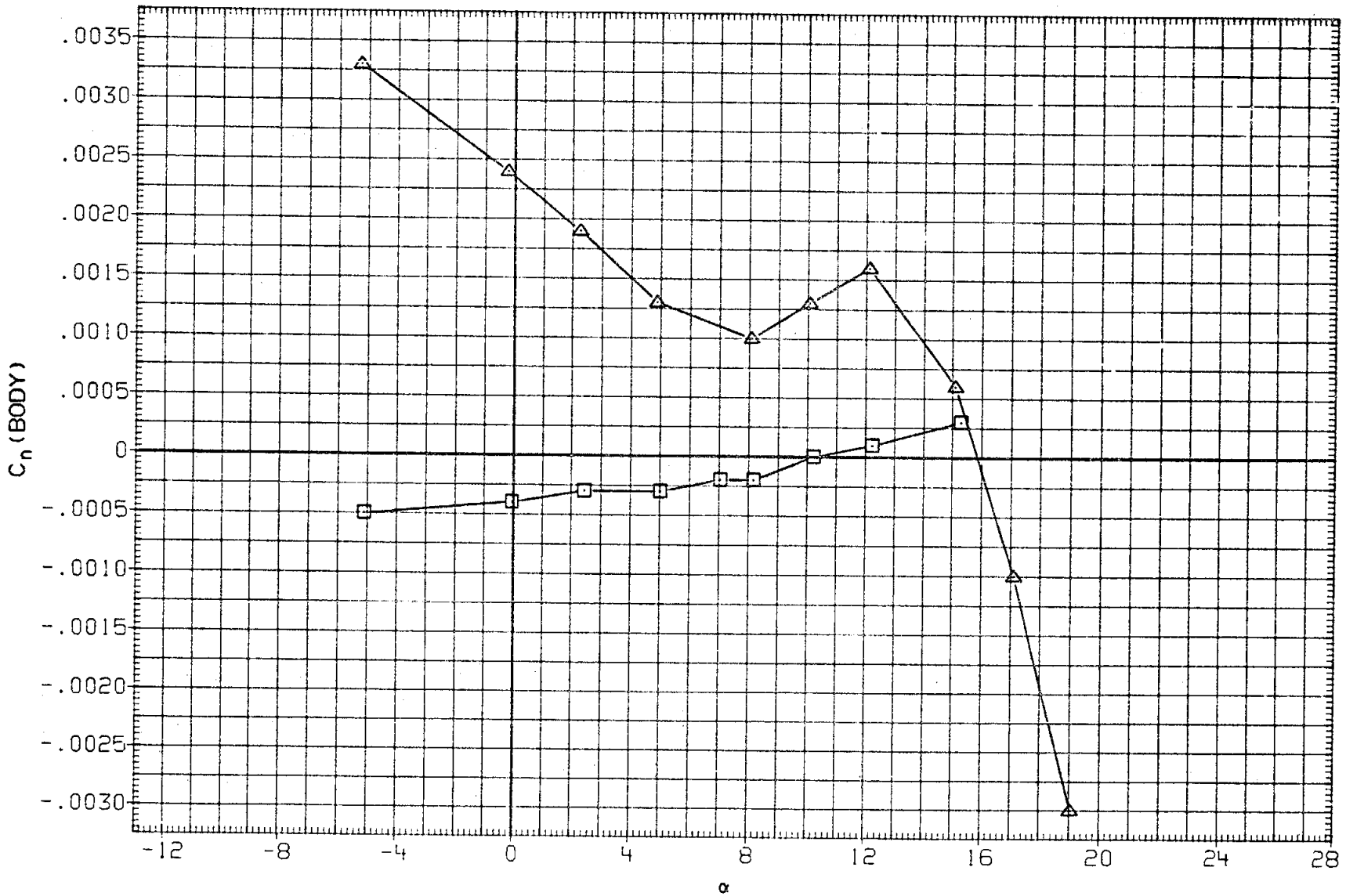

FIGURE 23. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=55

(J) MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION
RK0014	○	DATA NOT AVAILABLE
R2F098	□	AMES 118-1-11 OA145A 01
RK0024	◇	DATA NOT AVAILABLE
R2F099	△	AMES 118-1-11 OA145A 01

BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
.000	.000	.000	.000	54.570	.060	.000
.000	.000	.000	.000	55.000	.000	
2.000	.000	.000	.000	54.570	.060	.000
2.000	.000	.000	.000	55.000	.000	

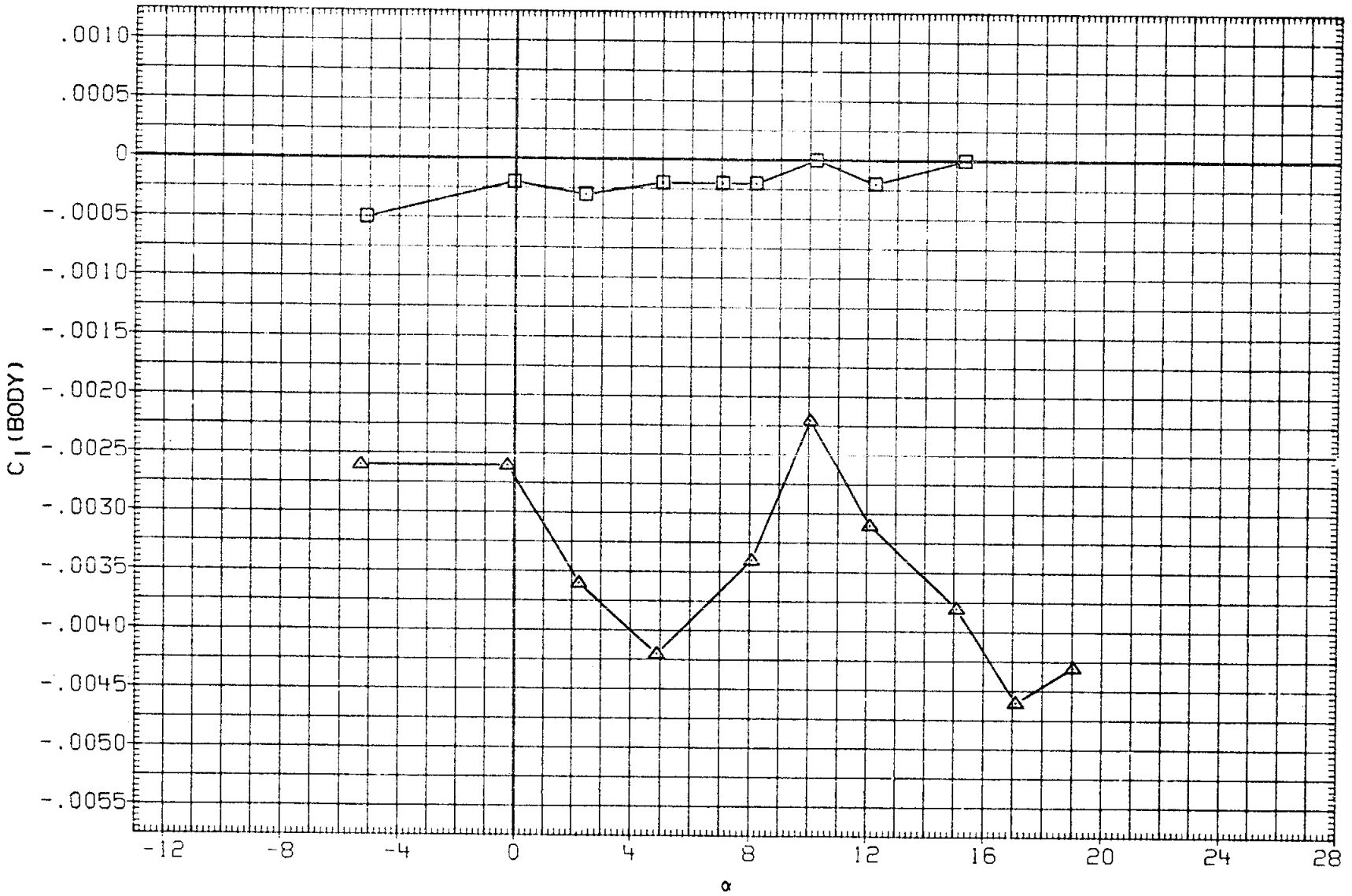

FIGURE 23. SPEED BRAKE EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS, SPDBRK=55

(J)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0030	○	DATA NOT AVAILABLE	5.000	4.920	-.010	.000	25.500	-.030	90.000
R2F041	□	AMES 118-1-11 OA145A 01	5.000	5.000	.000	.000	25.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RK0029	◺	DATA NOT AVAILABLE	5.000	-4.790	.000	.000	25.500	-.030	90.000
R2F042	◻	AMES 118-1-11 OA145A 01	5.000	-5.000	.000	.000	25.000	.000	

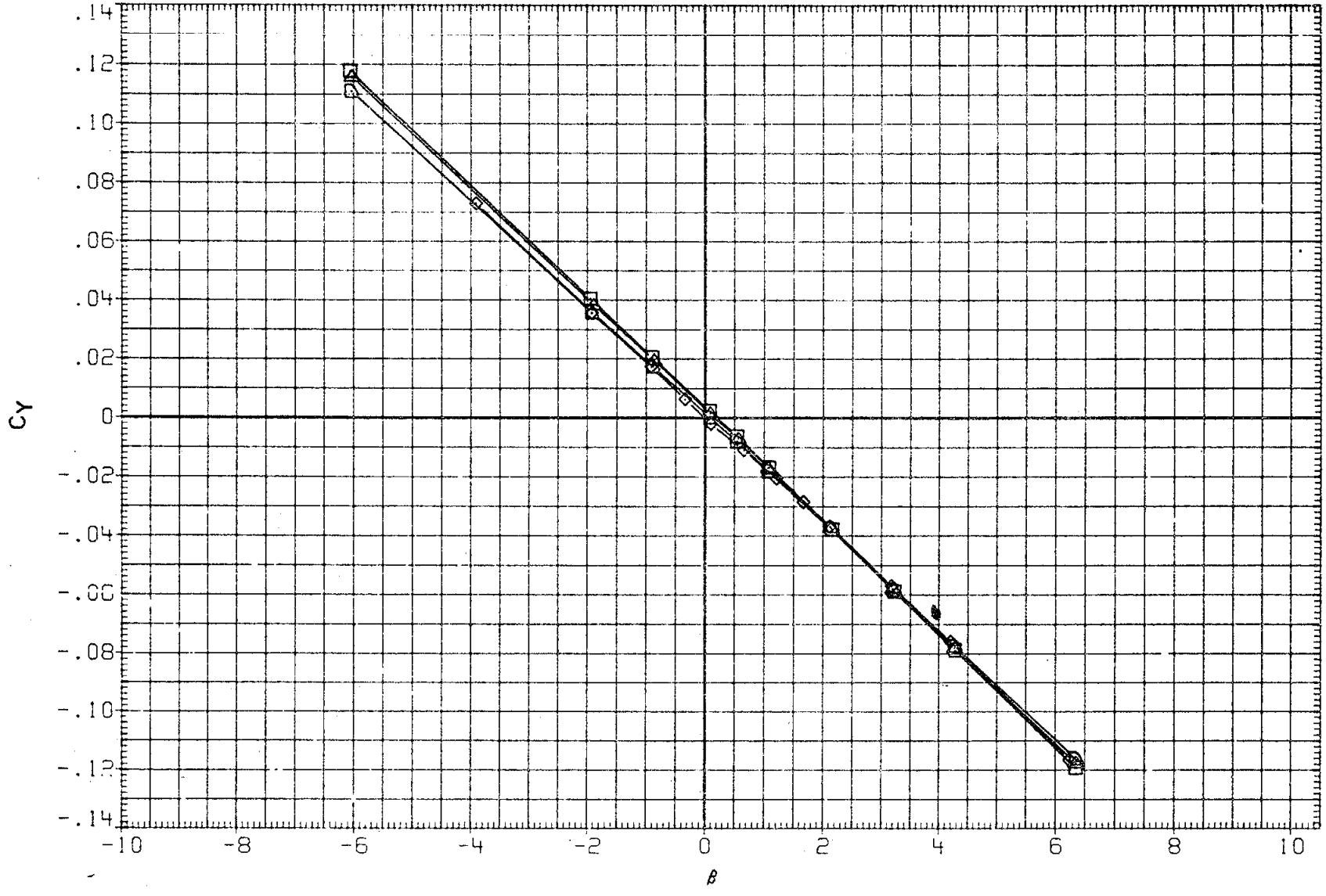

FIGURE 24. ELEVON EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0030	○	DATA NOT AVAILABLE	5.000	4.920	-.010	.000	25.500	-.030	90.000
R2F041	□	AMES 118-1-11 OA145A 01	5.000	5.000	.000	.000	25.000	.000	
RK0027	◇	LARC 16FT TWT 325(C-270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RK0029	▷	DATA NOT AVAILABLE	5.000	-4.790	.000	.000	25.500	-.030	90.000
R2F042	D	AMES 118-1-11 OA145A 01	5.000	-5.000	.000	.000	25.000	.000	

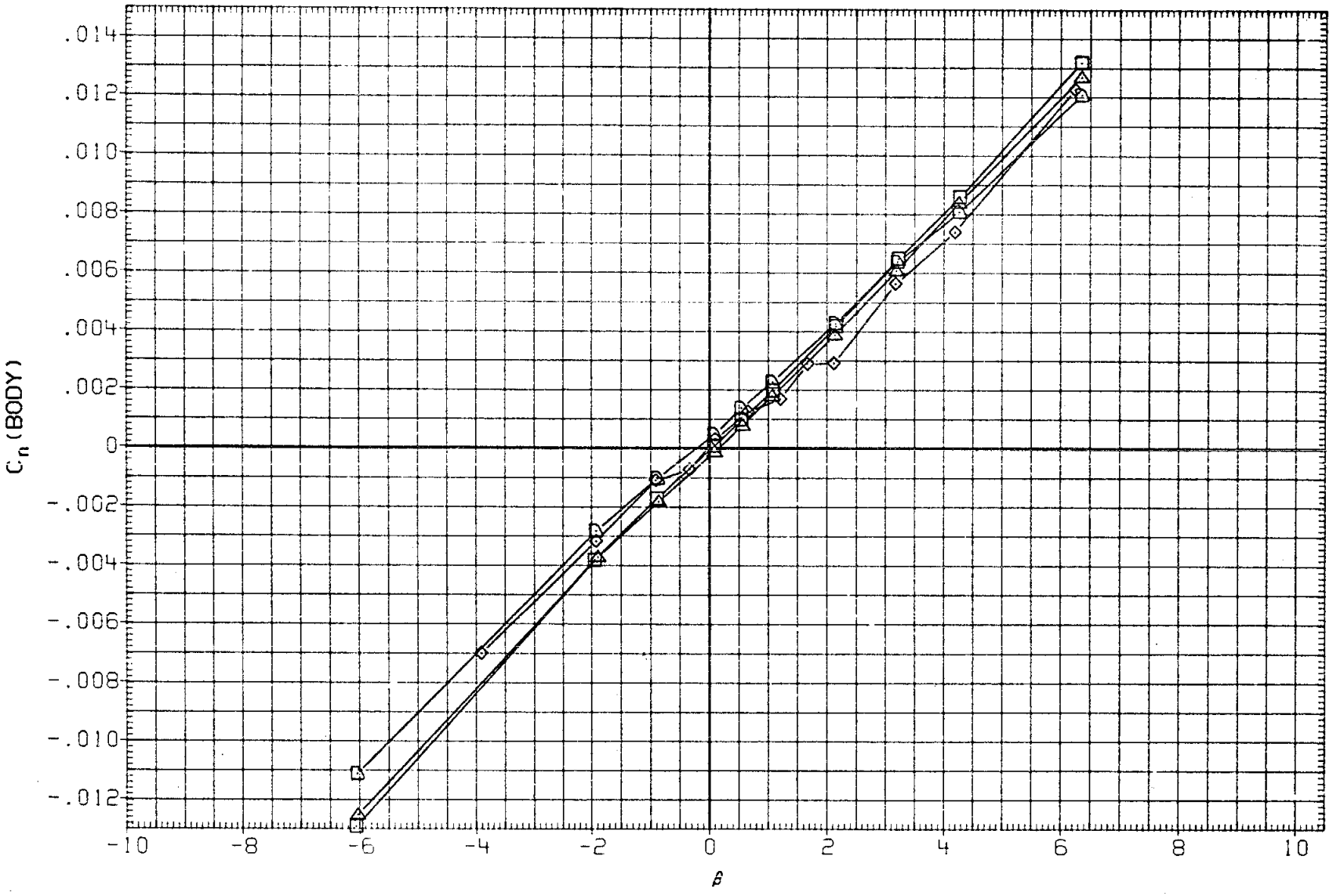

FIGURE 24. ELEVON EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION
RK0030	○	DATA NOT AVAILABLE
R2F041	□	AMES 118-1-11 OA145A 01
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F018	△	AMES 118-1-11 OA145A 01
RK0029	◺	DATA NOT AVAILABLE
R2F042	◗	AMES 118-1-11 OA145A 01

ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
5.000	4.920	-.010	.000	25.500	-.030	90.000
5.000	5.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	25.500	-.030	90.000
5.000	.000	.000	.000	25.000	.000	
5.000	-4.790	.000	.000	25.500	-.030	90.000
5.000	-5.000	.000	.000	25.000	.000	

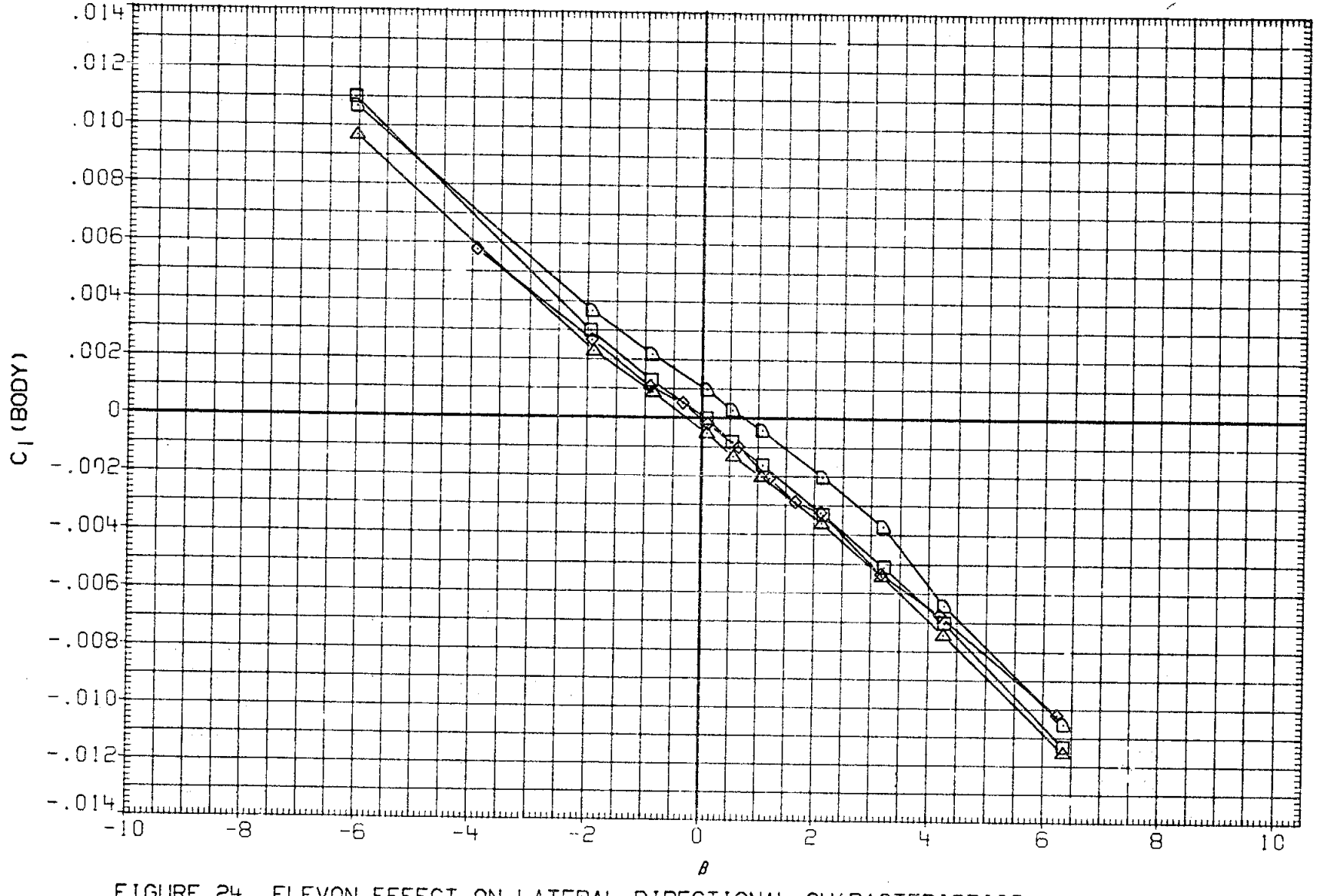

FIGURE 24. ELEVON EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0030	○	DATA NOT AVAILABLE	5.000	4.920	-.010	.000	25.500	-.030	90.000
R2F041	□	DATA NOT AVAILABLE	5.000	5.000	.000	.000	25.000	.000	
RK0027	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RK0029	◁	DATA NOT AVAILABLE	5.000	-4.790	.000	.000	25.500	-.030	90.000
R2F042	▷	DATA NOT AVAILABLE	5.000	-5.000	.000	.000	25.000	.000	

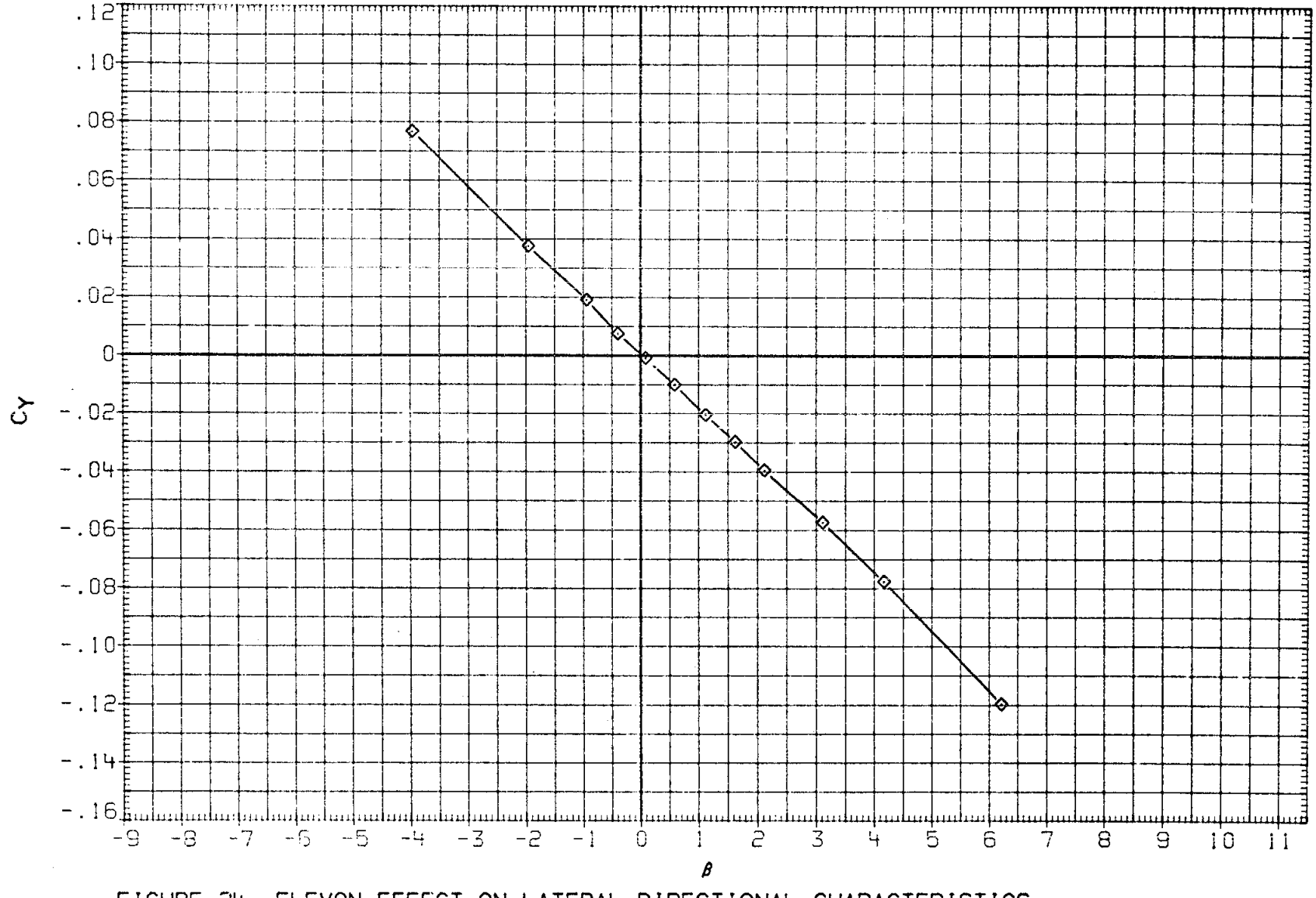

FIGURE 24. ELEVON EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS

(B) MACH = .70

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0030	○	DATA NOT AVAILABLE	5.000	4.920	-.010	.000	25.500	-.030	90.000
R2F041	□	DATA NOT AVAILABLE	5.000	5.000	.000	.000	25.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RK0029	◺	DATA NOT AVAILABLE	5.000	-4.790	.000	.000	25.500	-.030	90.000
R2F042	▱	DATA NOT AVAILABLE	5.000	-5.000	.000	.000	25.000	.000	

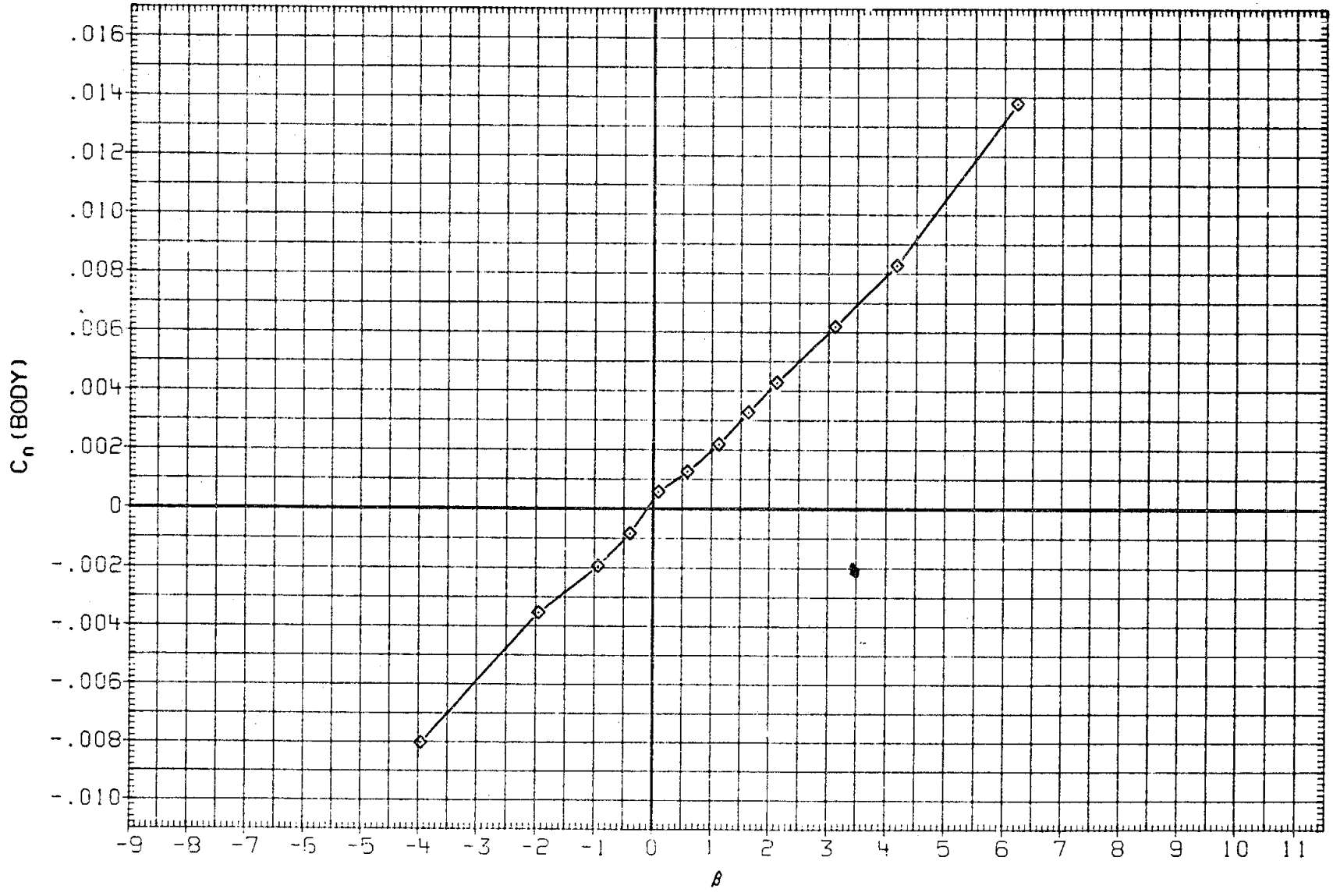

FIGURE 24. ELEVON EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS

(B)MACH = .70

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0030	○	DATA NOT AVAILABLE	5.000	4.920	-.010	.000	25.500	-.030	90.000
R2F041	□	DATA NOT AVAILABLE	5.000	5.000	.000	.000	25.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RK0029	◺	DATA NOT AVAILABLE	5.000	-4.790	.000	.000	25.500	-.030	90.000
R2F042	◻	DATA NOT AVAILABLE	5.000	-5.000	.000	.000	25.000	.000	

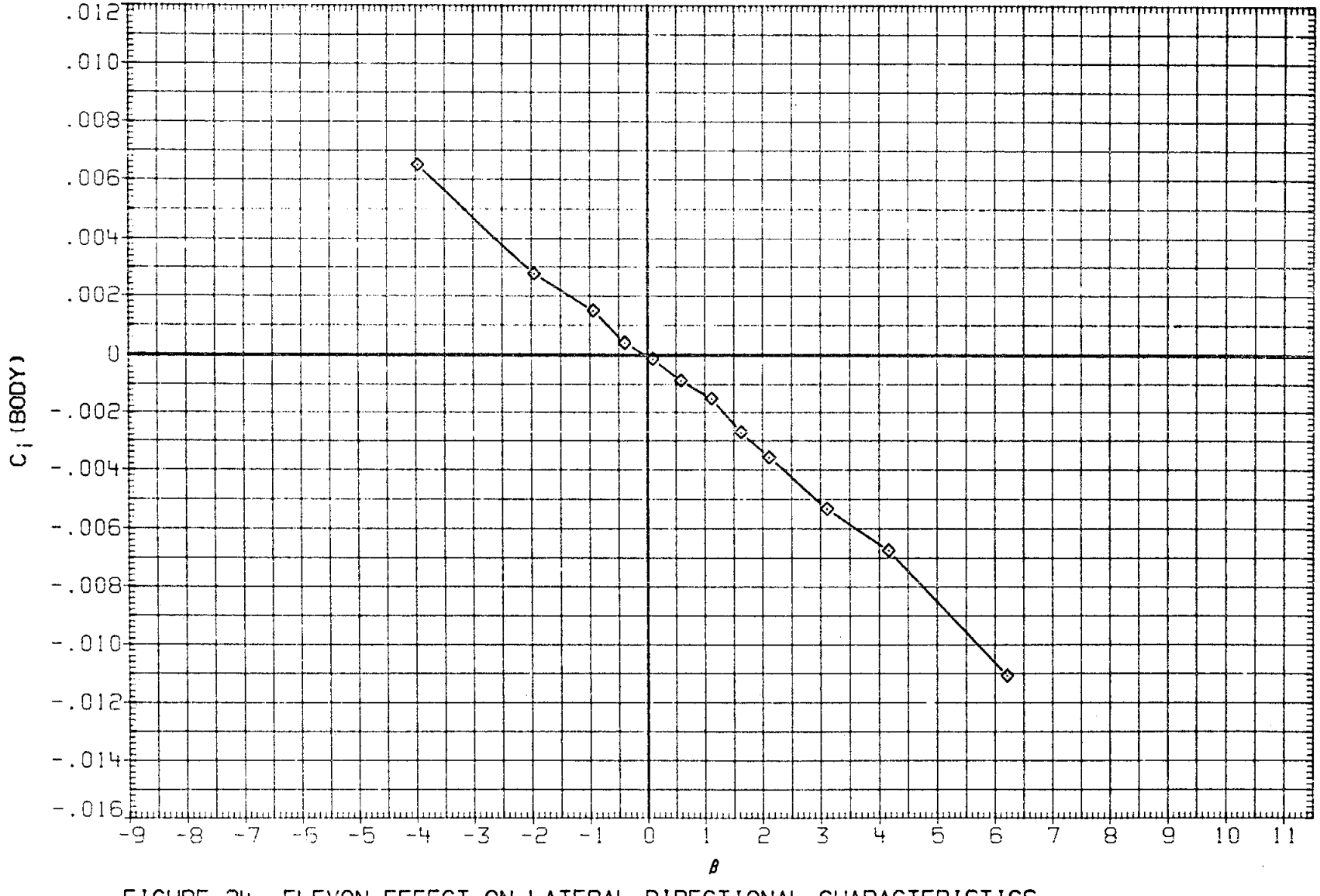

FIGURE 24. ELEVON EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS

(B)MACH = .70

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0030	○	DATA NOT AVAILABLE	5.000	4.920	-.010	.000	25.500	-.030	90.000
R2F041	□	AMES 118-1-11 OA145A 01	5.000	5.000	.000	.000	25.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RK0029	◺	DATA NOT AVAILABLE	5.000	-4.790	.000	.000	25.500	-.030	90.000
R2F042	◻	AMES 118-1-11 OA145A 01	5.000	-5.000	.000	.000	25.000	.000	

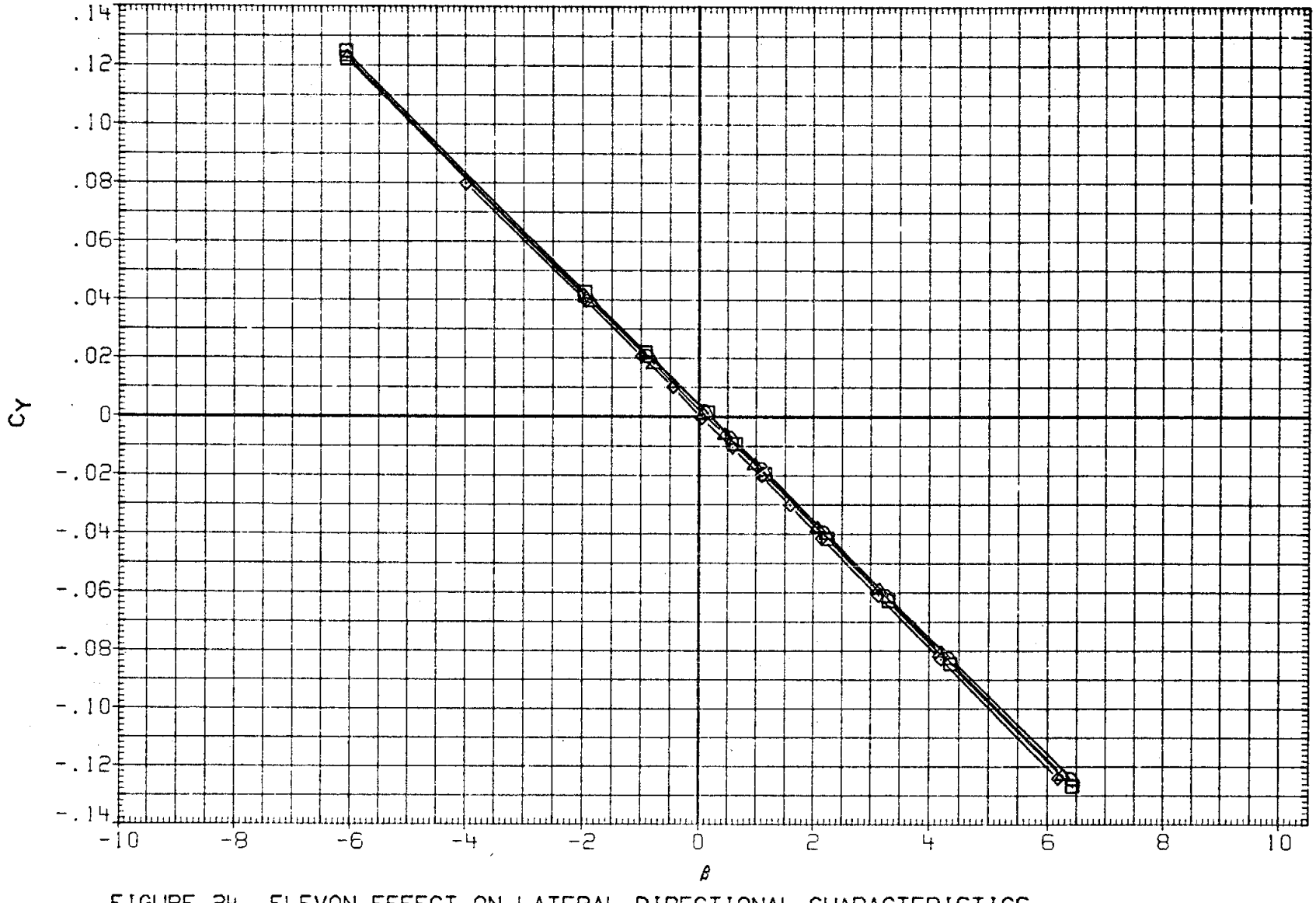

FIGURE 24. ELEVON EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS

(C)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0030	○	DATA NOT AVAILABLE	5.000	4.920	-.010	.000	25.500	-.030	90.000
R2F041	□	AMES 11ft-1-11 OA145A 01	5.000	5.000	.000	.000	25.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	AMES 11ft-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RK0029	◺	DATA NOT AVAILABLE	5.000	-4.790	.000	.000	25.500	-.030	90.000
R2F042	◻	AMES 11ft-1-11 OA145A 01	5.000	-5.000	.000	.000	25.000	.000	

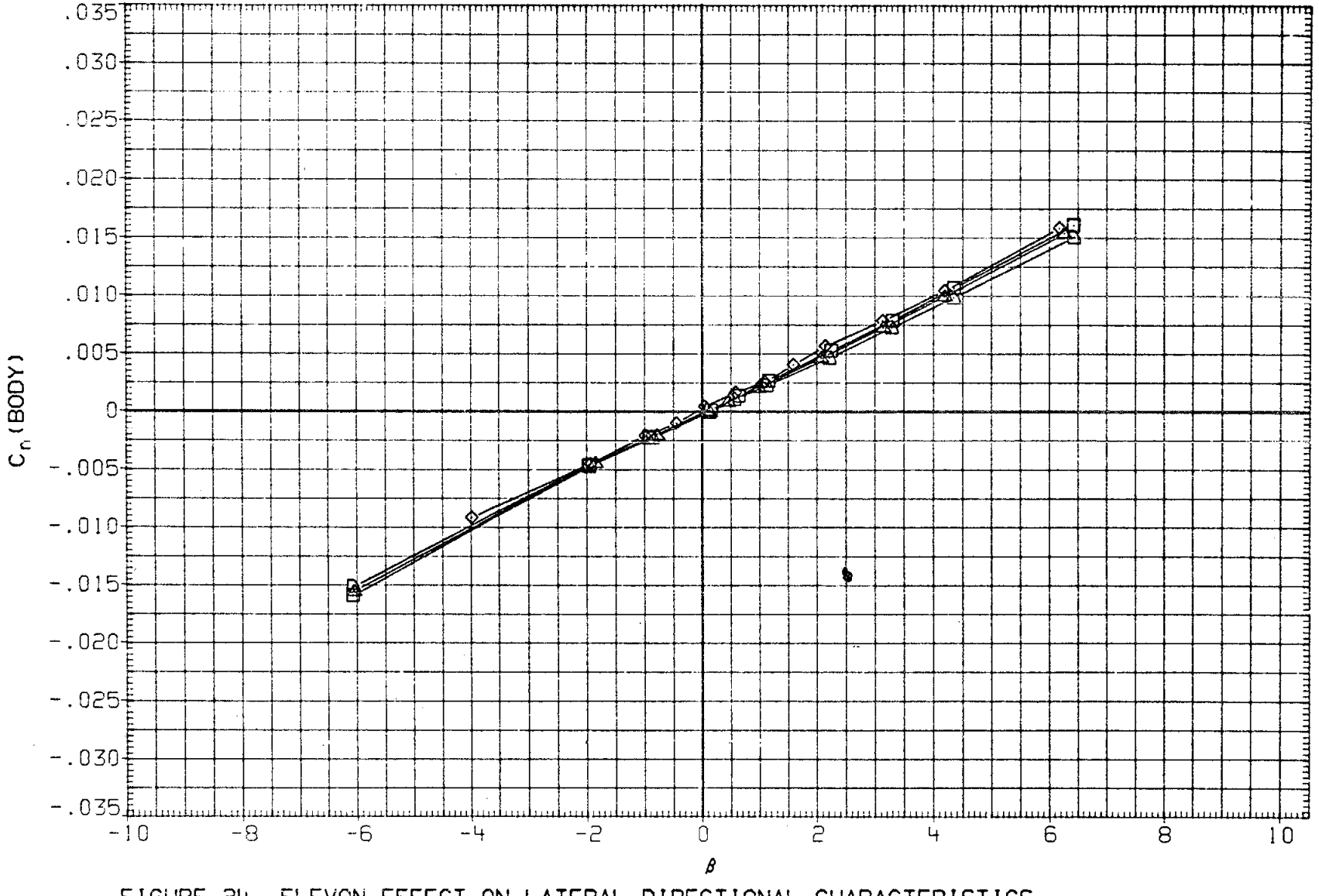

FIGURE 24. ELEVON EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS

(C) MACH = .80

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0030	○	DATA NOT AVAILABLE	5.000	4.920	-.010	.000	25.500	-.030	90.000
R2F041	□	AMES 118-1-11 OA145A 01	5.000	5.000	.000	.000	25.000	.000	
RK0027	◇	LARC 16FT TWT 3251(OA270B) 105-C ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RK0029	◺	DATA NOT AVAILABLE	5.000	-4.790	.000	.000	25.500	-.030	90.000
R2F042	◻	AMES 118-1-11 OA145A 01	5.000	-5.000	.000	.000	25.000	.000	

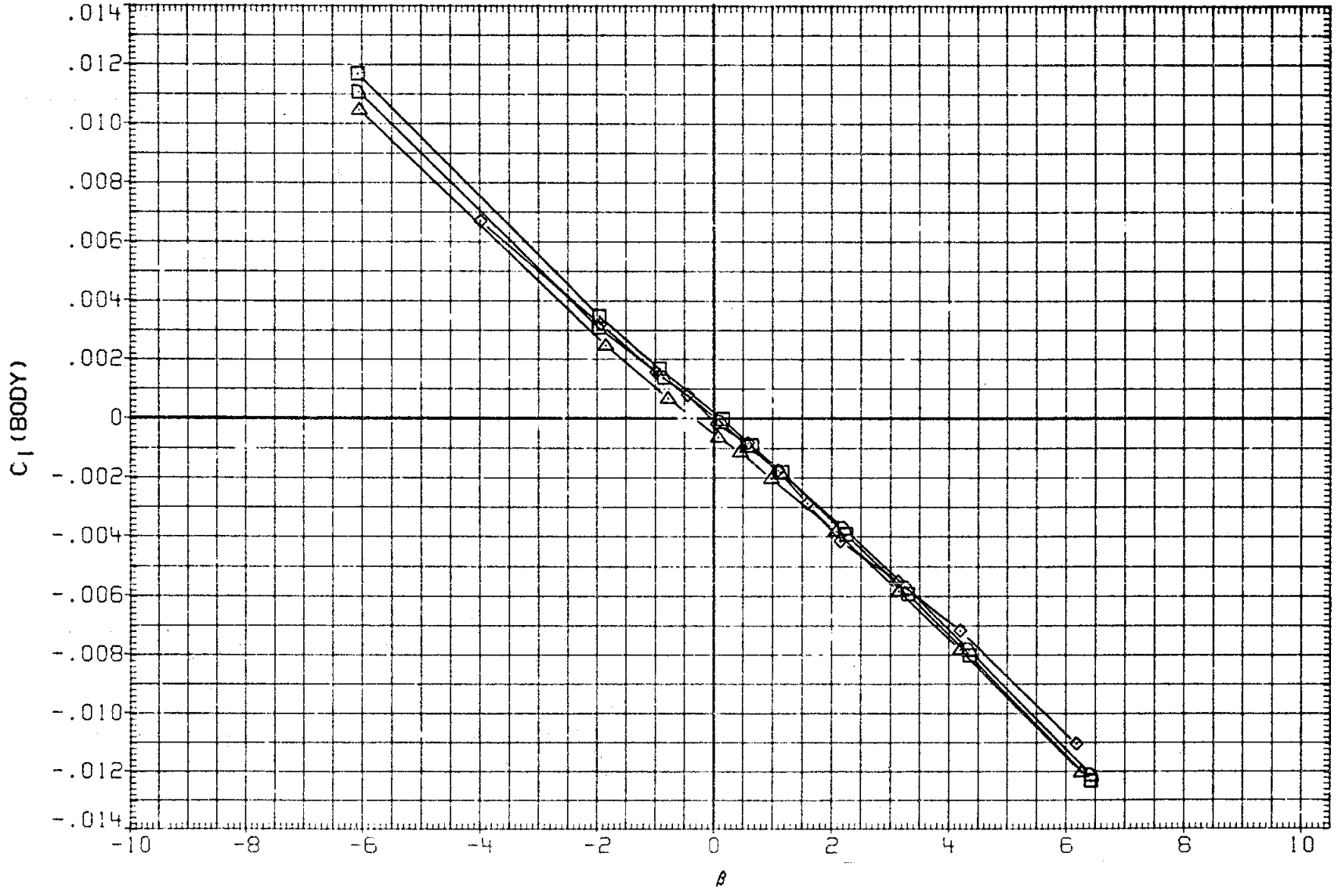

FIGURE 24. ELEVON EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS

(C)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0030	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	4.920	-.010	.000	25.500	-.030	90.000
R2F041	□	AMES 118-1-11 OA145A 01	5.000	5.000	.000	.000	25.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RK0029	▷	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	-4.790	.000	.000	25.500	-.030	90.000
R2F042	D	AMES 118-1-11 OA145A 01	5.000	-5.000	.000	.000	25.000	.000	

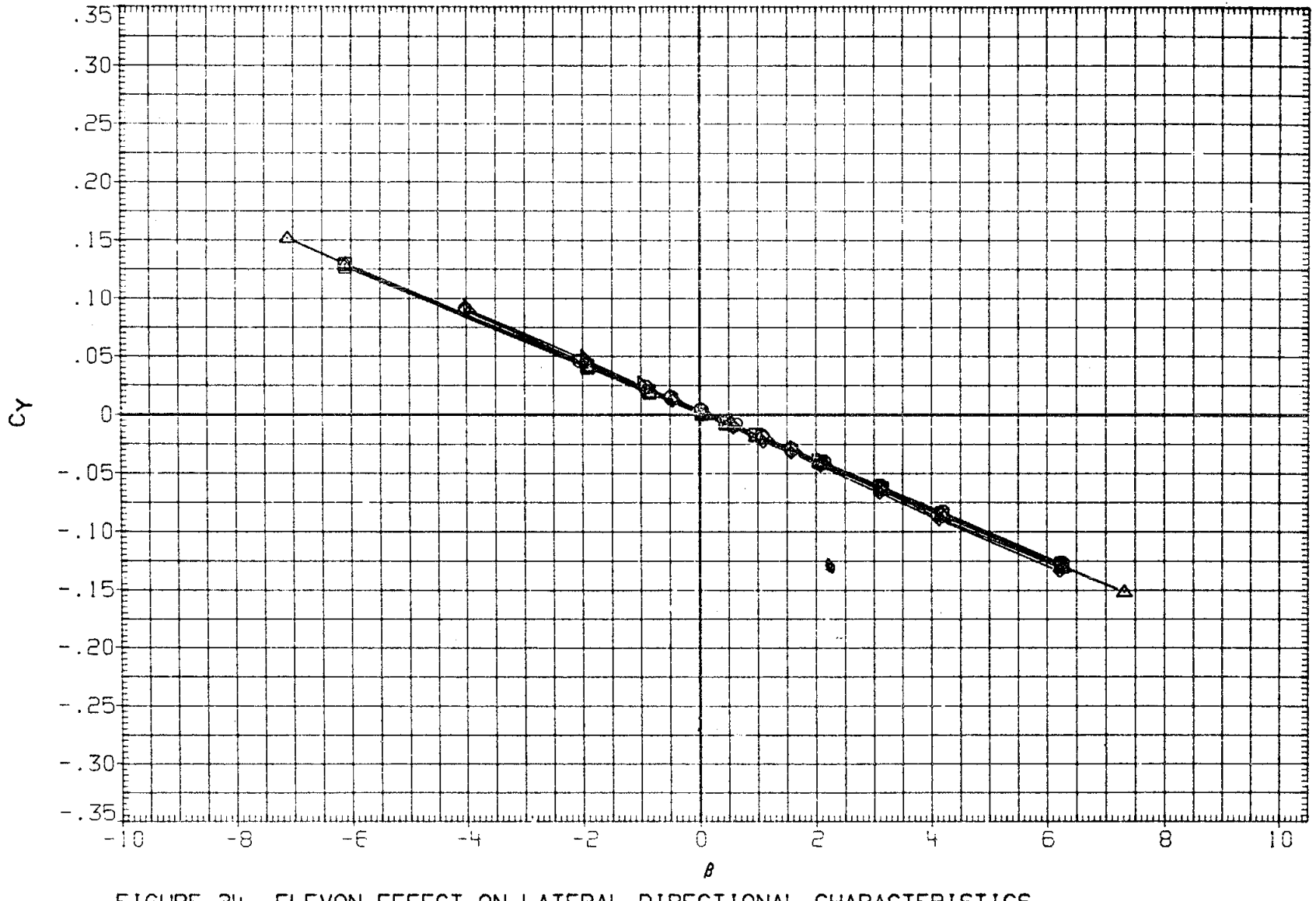

FIGURE 24. ELEVON EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS

(D)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0030	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	4.920	-.010	.000	25.500	-.030	90.000
R2F041	□	AMES 118-1-11 OA145A 01	5.000	5.000	.000	.000	25.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RK0029	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	-4.790	.000	.000	25.500	-.030	90.000
R2F042	◺	AMES 118-1-11 OA145A 01	5.000	-5.000	.000	.000	25.000	.000	

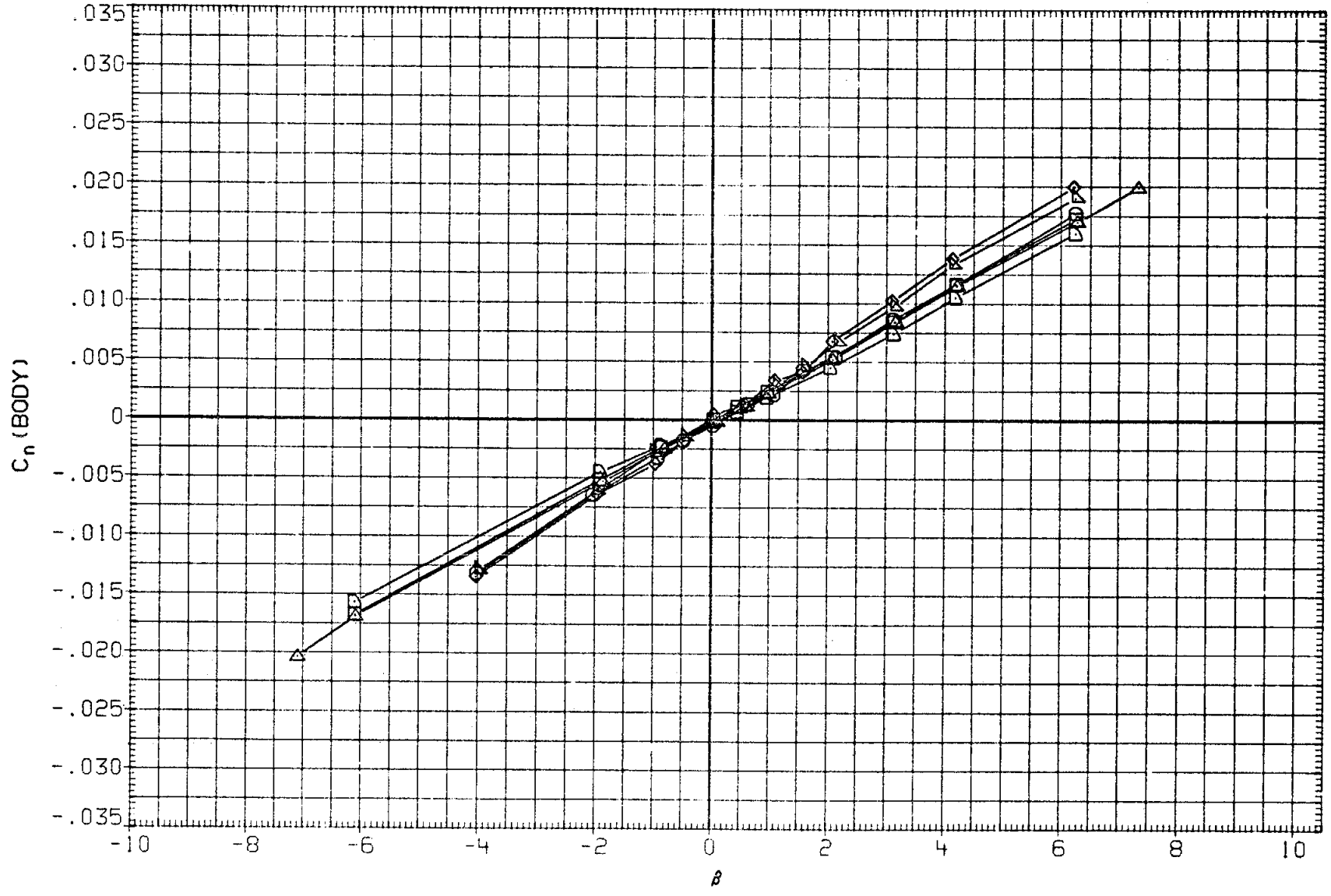

FIGURE 24. ELEVON EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS

(D)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0030	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	5.000	4.920	-.010	.000	25.500	-.030	90.000
R2F041	□	AMES 118-1-11 0A145A 01	5.000	5.000	.000	.000	25.000	.000	
RK0027	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	AMES 118-1-11 0A145A 01	5.000	.000	.000	.000	25.000	.000	
RK0029	◁	LARC 16FT TWT 325(0A270B) 105-0 ORB.	5.000	-4.790	.000	.000	25.500	-.030	90.000
R2F042	D	AMES 118-1-11 0A145A 01	5.000	-5.000	.000	.000	25.000	.000	

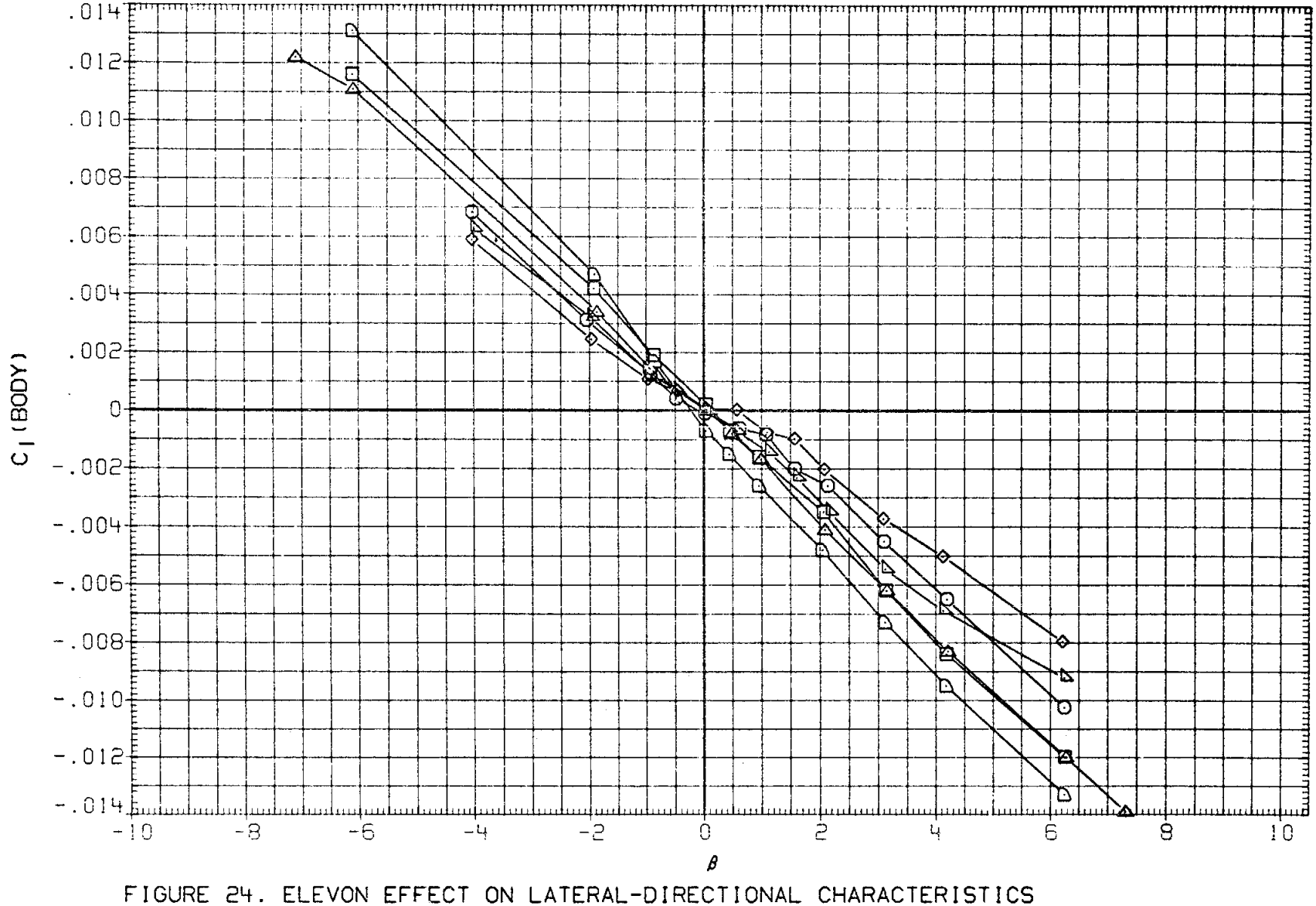

FIGURE 24. ELEVON EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS

(D)MACH = .90

DATA SET	SYMBOL	CONFIGURATION
RK0030	○	DATA NOT AVAILABLE
R2F041	□	DATA NOT AVAILABLE
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F018	△	DATA NOT AVAILABLE
RK0029	◺	DATA NOT AVAILABLE
R2F042	D	DATA NOT AVAILABLE

ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
5.000	4.920	-.010	.000	25.500	-.030	90.000
5.000	5.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	25.500	-.030	90.000
5.000	.000	.000	.000	25.000	.000	
5.000	-4.790	.000	.000	25.500	-.030	90.000
5.000	-5.000	.000	.000	25.000	.000	

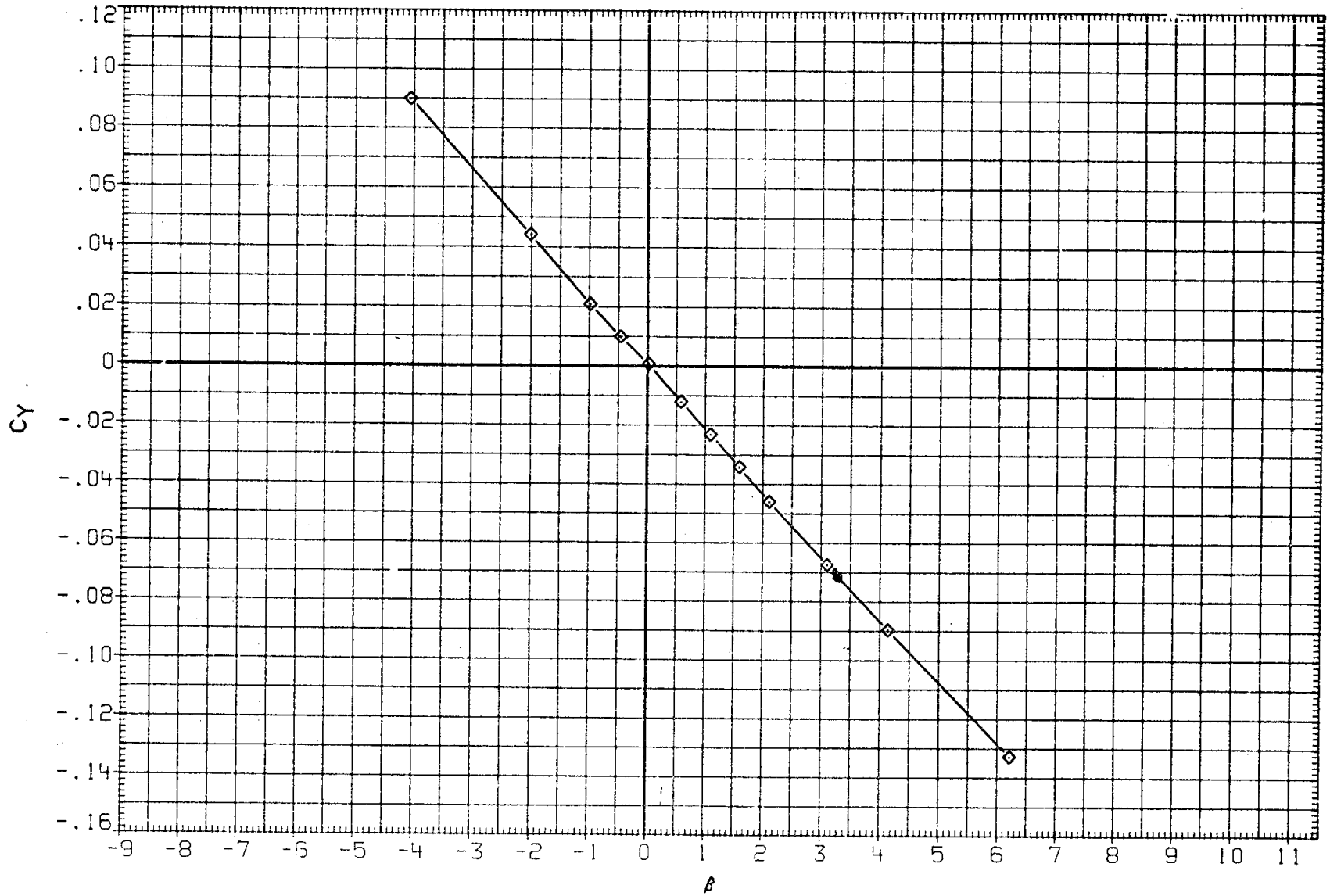

FIGURE 24. ELEVON EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS

(E)MACH = .92

DATA SET	SYMBOL	CONFIGURATION
RK0030	○	DATA NOT AVAILABLE
R2F041	□	DATA NOT AVAILABLE
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F018	△	DATA NOT AVAILABLE
RK0029	▷	DATA NOT AVAILABLE
R2F042	D	DATA NOT AVAILABLE

ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
5.000	4.920	-.010	.000	25.500	-.030	90.000
5.000	5.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	25.500	-.030	90.000
5.000	.000	.000	.000	25.000	.000	
5.000	-4.790	.000	.000	25.500	-.030	90.000
5.000	-5.000	.000	.000	25.000	.000	

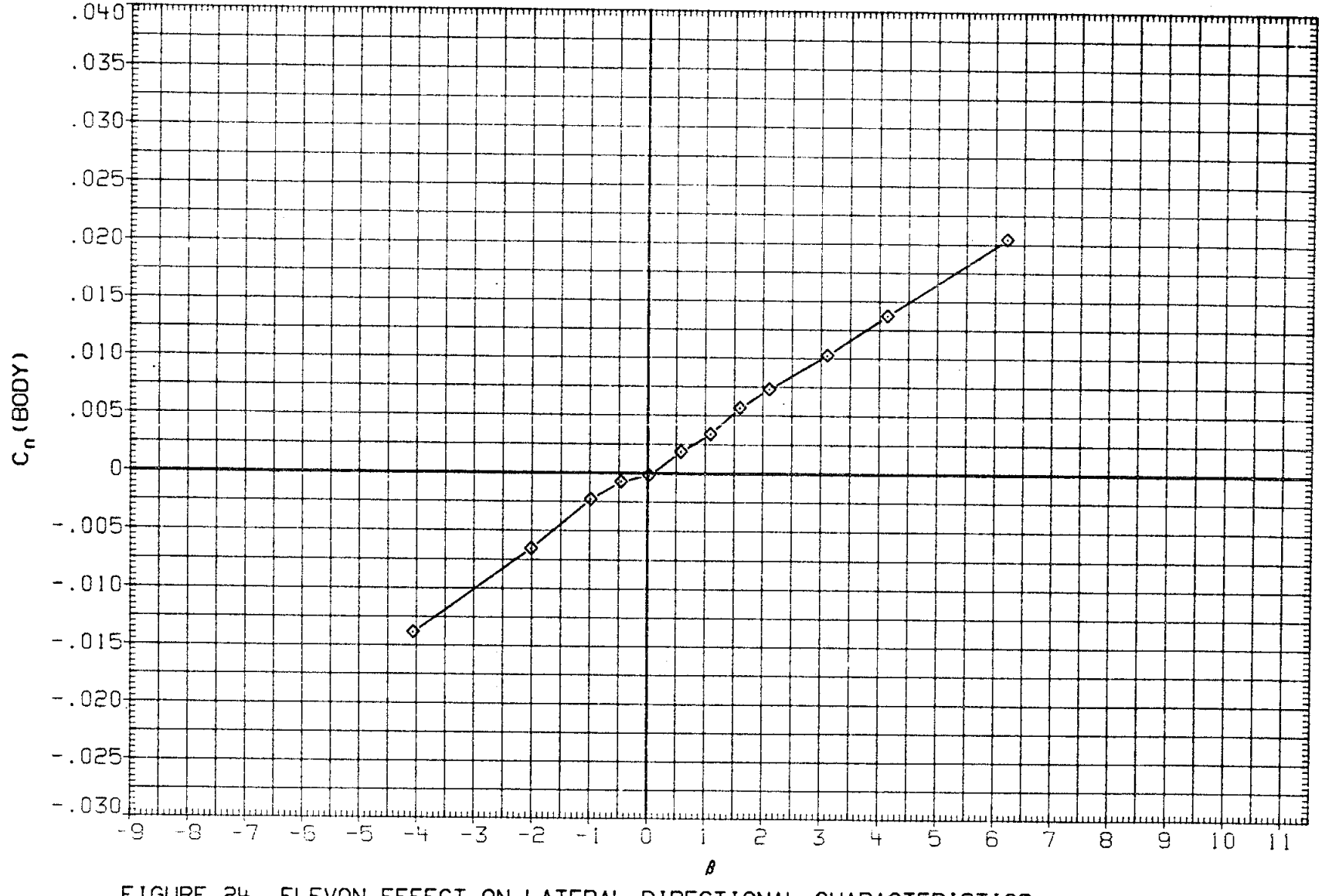

FIGURE 24. ELEVON EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS

(E) MACH = .92

DATA SET	SYMBOL	CONFIGURATION
RK0030	○	DATA NOT AVAILABLE
R2F041	□	DATA NOT AVAILABLE
RK0027	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.
R2F018	△	DATA NOT AVAILABLE
RK0029	◺	DATA NOT AVAILABLE
R2F042	◻	DATA NOT AVAILABLE

ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
5.000	4.920	-.010	.000	25.500	-.030	90.000
5.000	5.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	25.500	-.030	90.000
5.000	.000	.000	.000	25.000	.000	
5.000	-4.790	.000	.000	25.500	-.030	90.000
5.000	-5.000	.000	.000	25.000	.000	

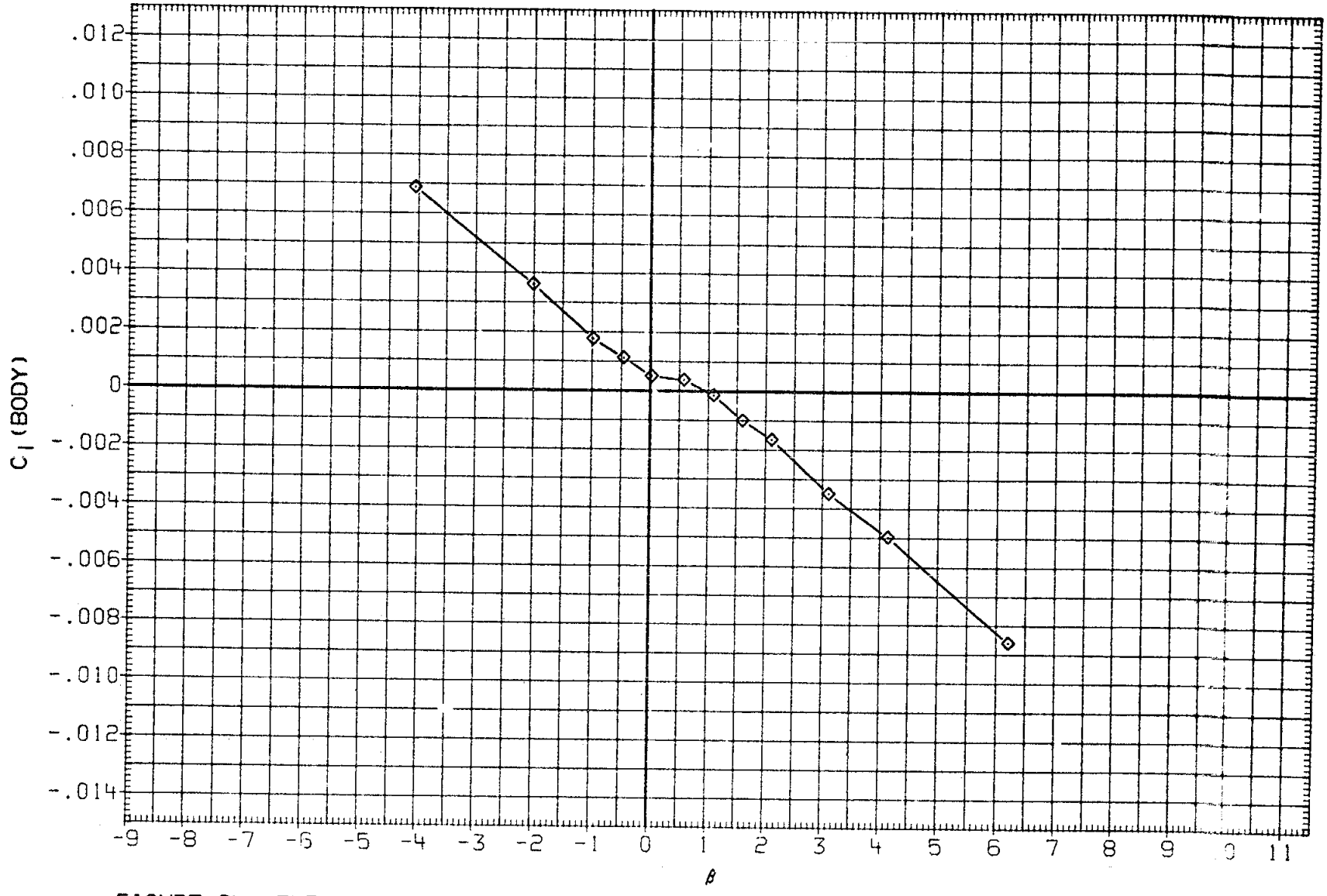

FIGURE 24. ELEVON EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS

(E)MACH = .92

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0030	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	4.920	-.010	.000	25.500	-.030	90.000
R2F041	□	AMES 118-1-11 OA145A 01	5.000	5.000	.000	.000	25.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RK0029	◁	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	-4.790	.000	.000	25.500	-.030	90.000
R2F042	▷	AMES 118-1-11 OA145A 01	5.000	-5.000	.000	.000	25.000	.000	

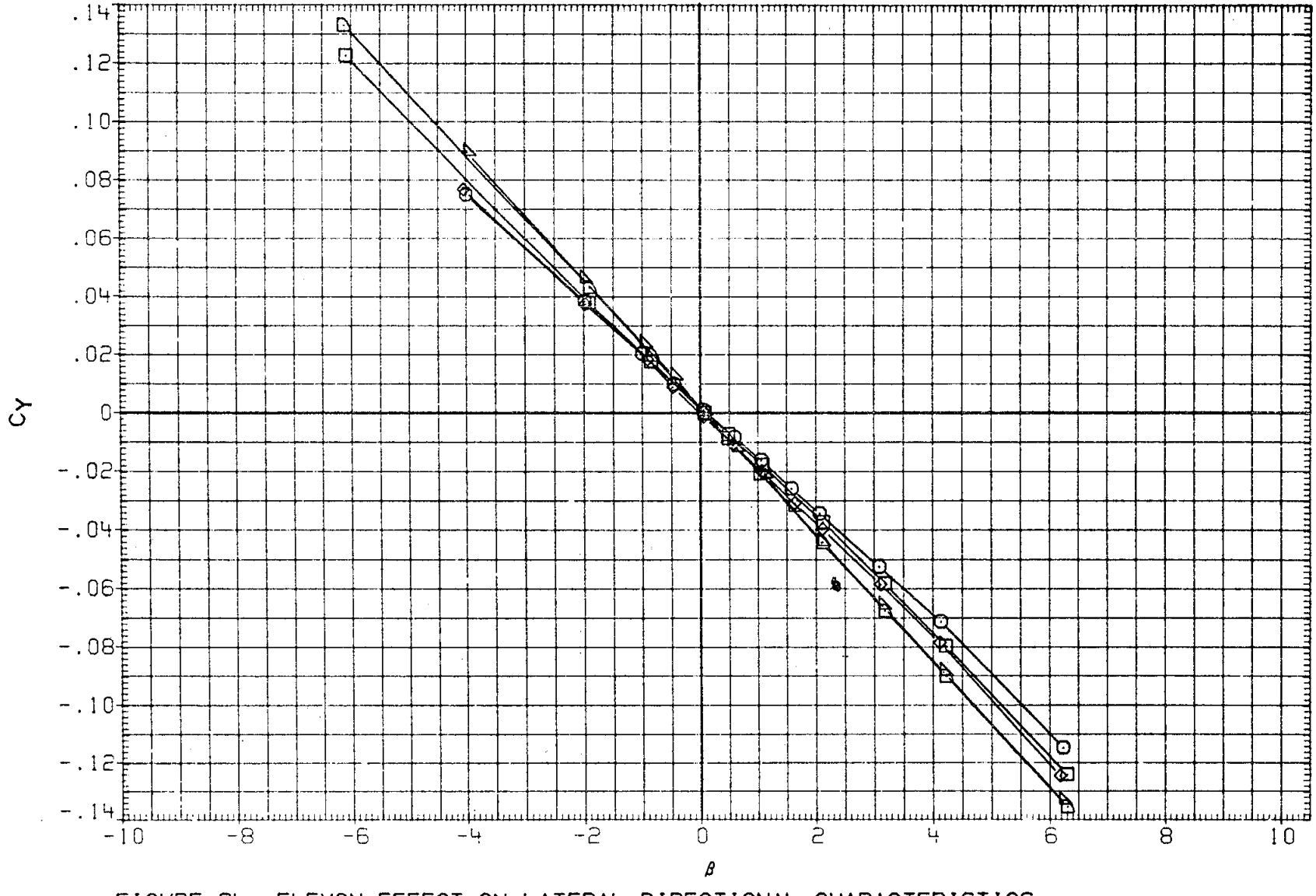

FIGURE 24. ELEVON EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS

(F)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0030	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	4.920	-.010	.000	25.500	-.030	90.000
R2F041	□	AMES 118-1-11 OA145A 01	5.000	5.000	.000	.000	25.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RK0029	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	-4.790	.000	.000	25.500	-.030	90.000
R2F042	D	AMES 118-1-11 OA145A 01	5.000	-5.000	.000	.000	25.000	.000	

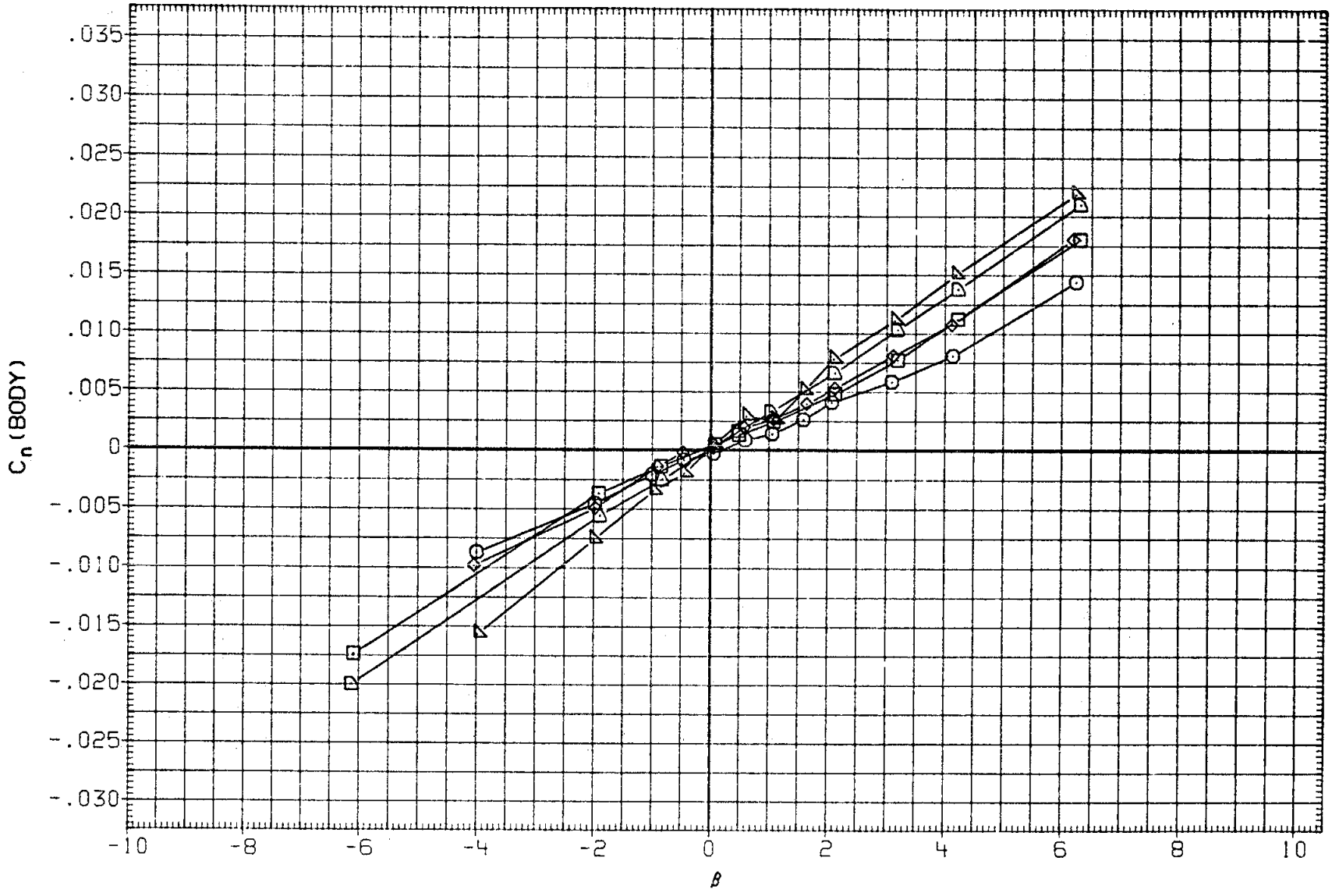

FIGURE 24. ELEVON EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS

(F)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0030	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	4.920	-.010	.000	25.500	-.030	90.000
R2F041	□	AMES 118-1-11 OA145A 01	5.000	5.000	.000	.000	25.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RK0029	◁	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	-4.790	.000	.000	25.500	-.030	90.000
R2F042	▷	AMES 118-1-11 OA145A 01	5.000	-5.000	.000	.000	25.000	.000	

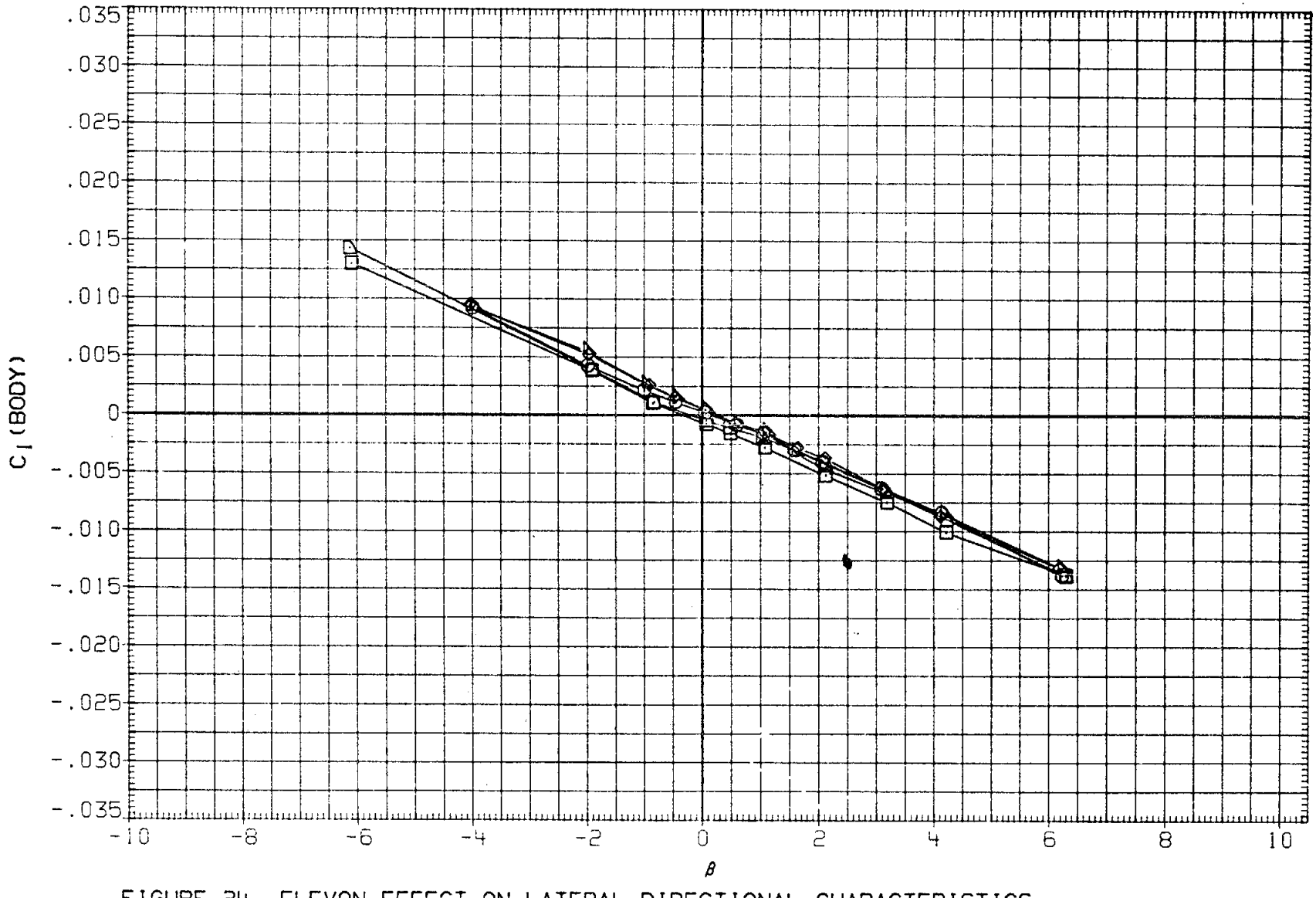

FIGURE 24. ELEVON EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS

(F)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0030	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	4.920	-.010	.000	25.500	-.030	90.000
R2F041	□	DATA NOT AVAILABLE	5.000	5.000	.000	.000	25.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RK0029	▷	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	-4.790	.000	.000	25.500	-.030	90.000
R2F042	D	DATA NOT AVAILABLE	5.000	-5.000	.000	.000	25.000	.000	

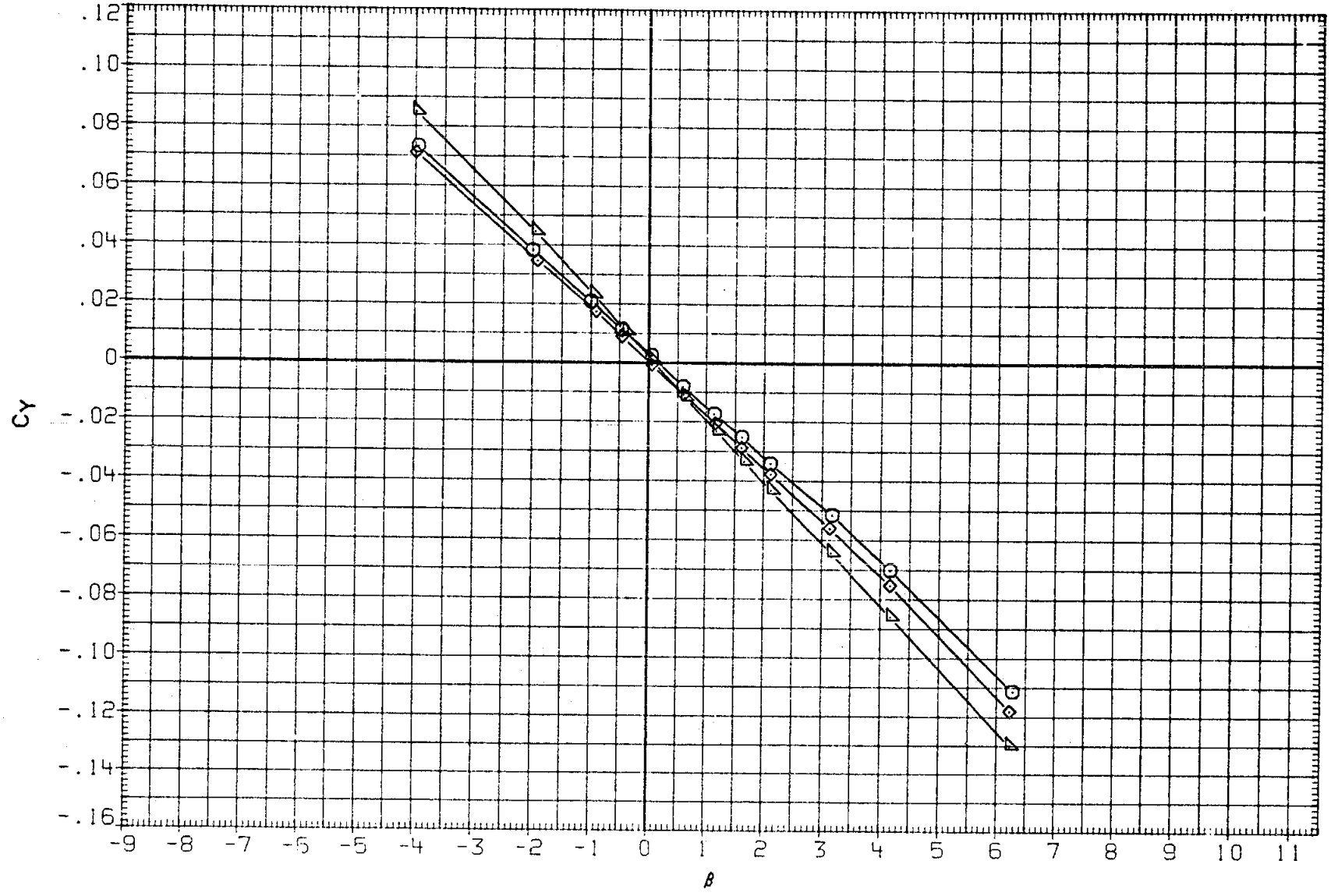

FIGURE 24. ELEVON EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS

(G)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0030	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	5.000	4.920	-.010	.000	25.500	-.030	90.000
R2F041	□	DATA NOT AVAILABLE	5.000	5.000	.000	.000	25.000	.000	
RK0027	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RK0029	◺	LARC 16FT TWT 325(0A270B) 105-0 ORB.	5.000	-4.790	.000	.000	25.500	-.030	90.000
R2F042	◺	DATA NOT AVAILABLE	5.000	-5.000	.000	.000	25.000	.000	

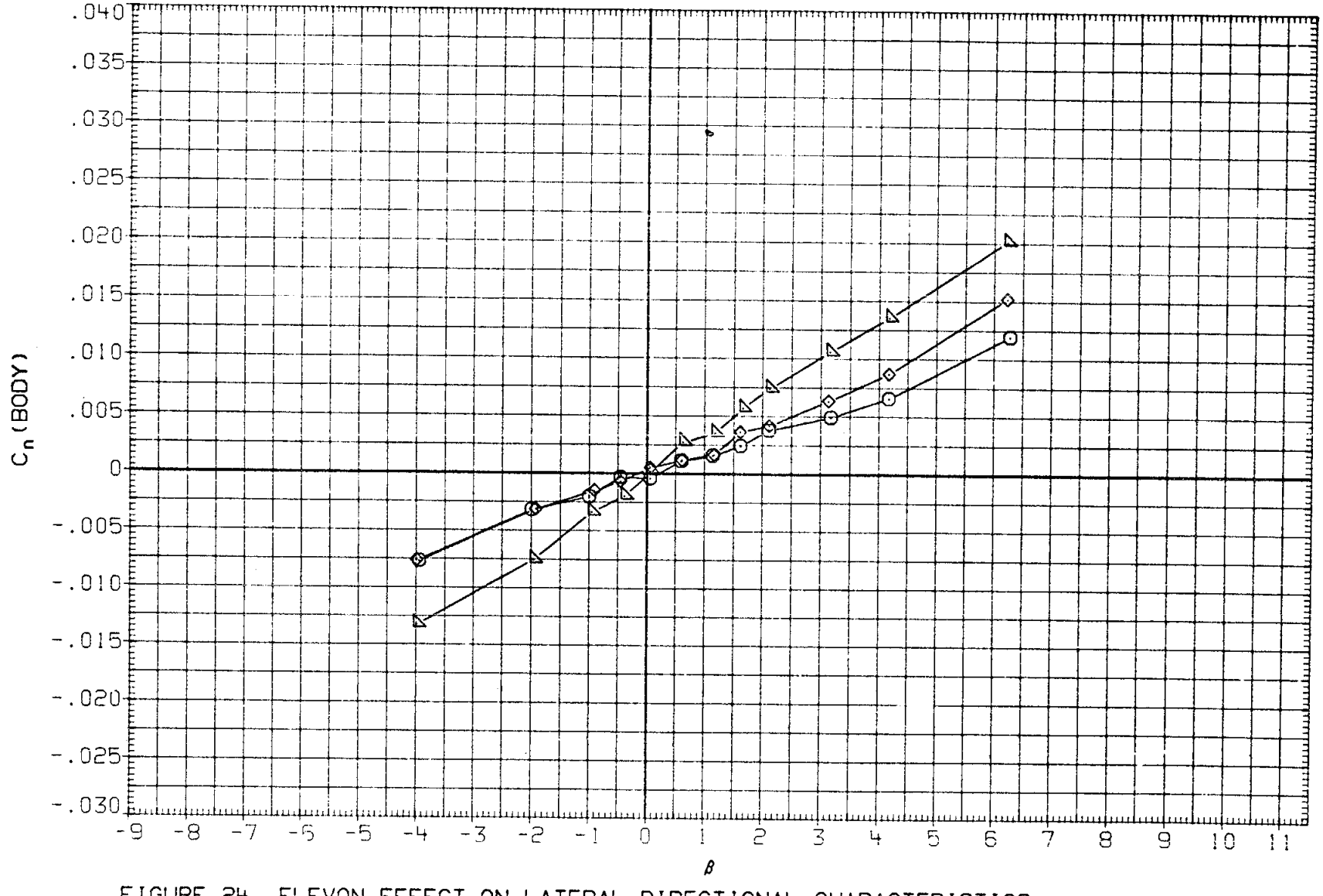

FIGURE 24. ELEVON EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS

(G)MACH = .98

DATA SET	SYMBOL	CONFIGURATION
RK0030	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F041	□	DATA NOT AVAILABLE
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F018	△	DATA NOT AVAILABLE
RK0029	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F042	◻	DATA NOT AVAILABLE

ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
5.000	4.920	-.010	.000	25.500	-.030	90.000
5.000	5.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	25.500	-.030	90.000
5.000	.000	.000	.000	25.000	.000	
5.000	-4.790	.000	.000	25.500	-.030	90.000
5.000	-5.000	.000	.000	25.000	.000	

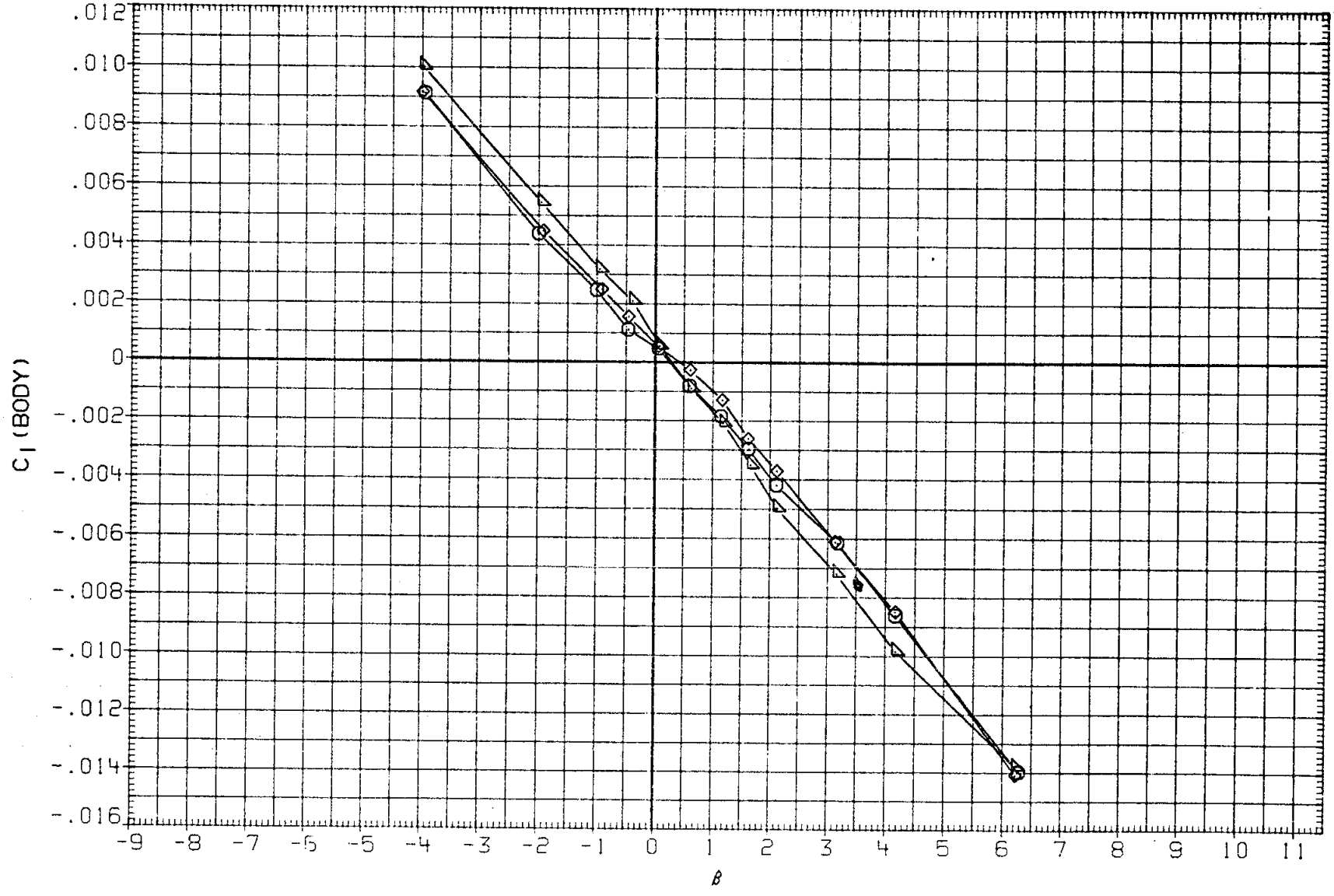

FIGURE 24. ELEVON EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS

(G)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0030	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	4.920	-.010	.000	25.500	-.030	90.000
R2F041	□	DATA NOT AVAILABLE	5.000	5.000	.000	.000	25.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RK0029	▷	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	-4.790	.000	.000	25.500	-.030	90.000
R2F042	D	DATA NOT AVAILABLE	5.000	-5.000	.000	.000	25.000	.000	

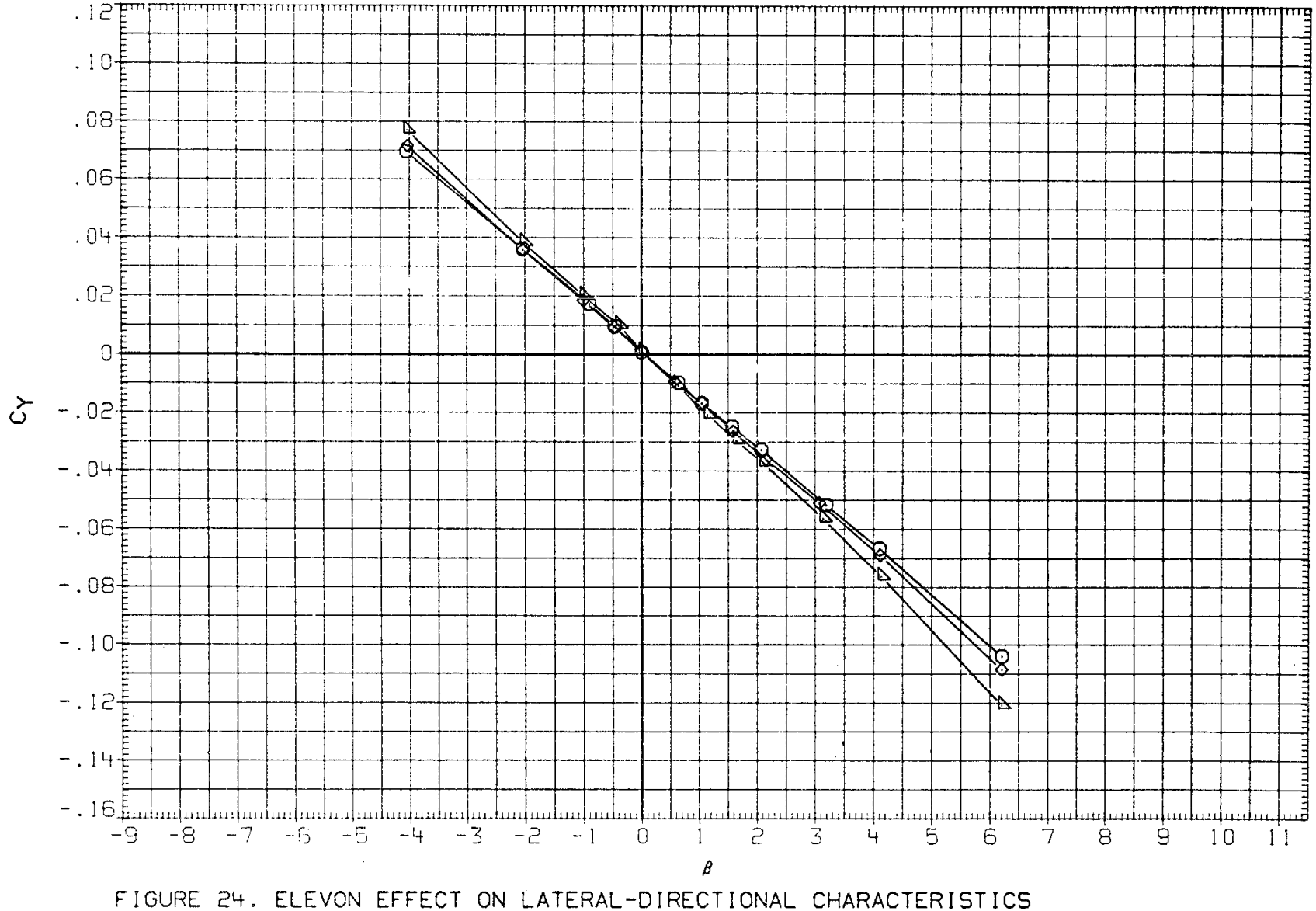

FIGURE 24. ELEVON EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS

(H)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0030	○	LARC 16FT TWT 325(OA270C) 105-0 ORB.	5.000	4.920	-.010	.000	25.500	-.030	90.000
R2F041	□	DATA NOT AVAILABLE	5.000	5.000	.000	.000	25.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RK0029	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	-4.790	.000	.000	25.500	-.030	90.000
R2F042	◺	DATA NOT AVAILABLE	5.000	-5.000	.000	.000	25.000	.000	

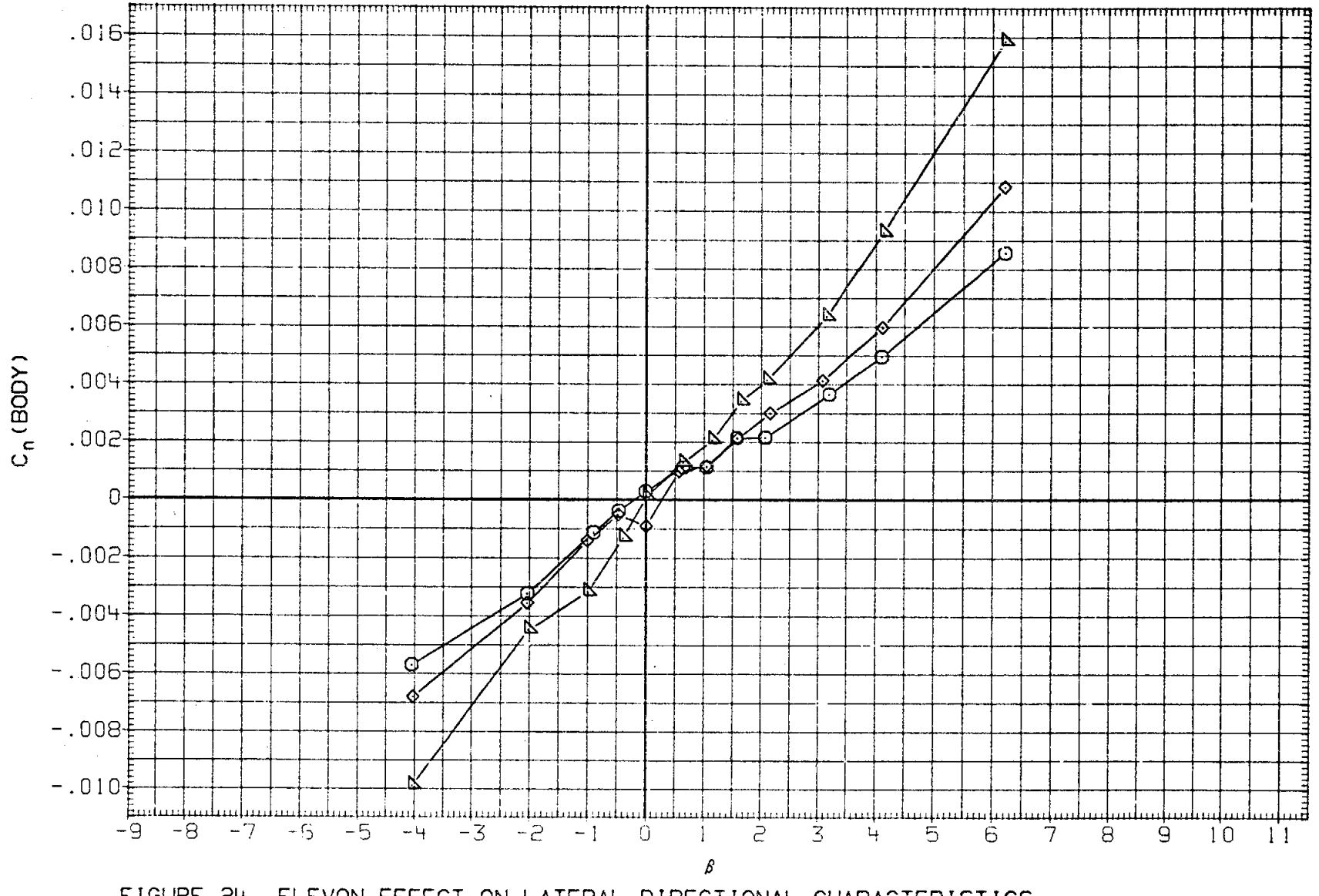

FIGURE 24. ELEVON EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS

(H)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0030	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	4.920	-.010	.000	25.500	-.030	90.000
R2F041	□	DATA NOT AVAILABLE	5.000	5.000	.000	.000	25.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RK0029	◁	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	-4.790	.000	.000	25.500	-.030	90.000
R2F042	▷	DATA NOT AVAILABLE	5.000	-5.000	.000	.000	25.000	.000	

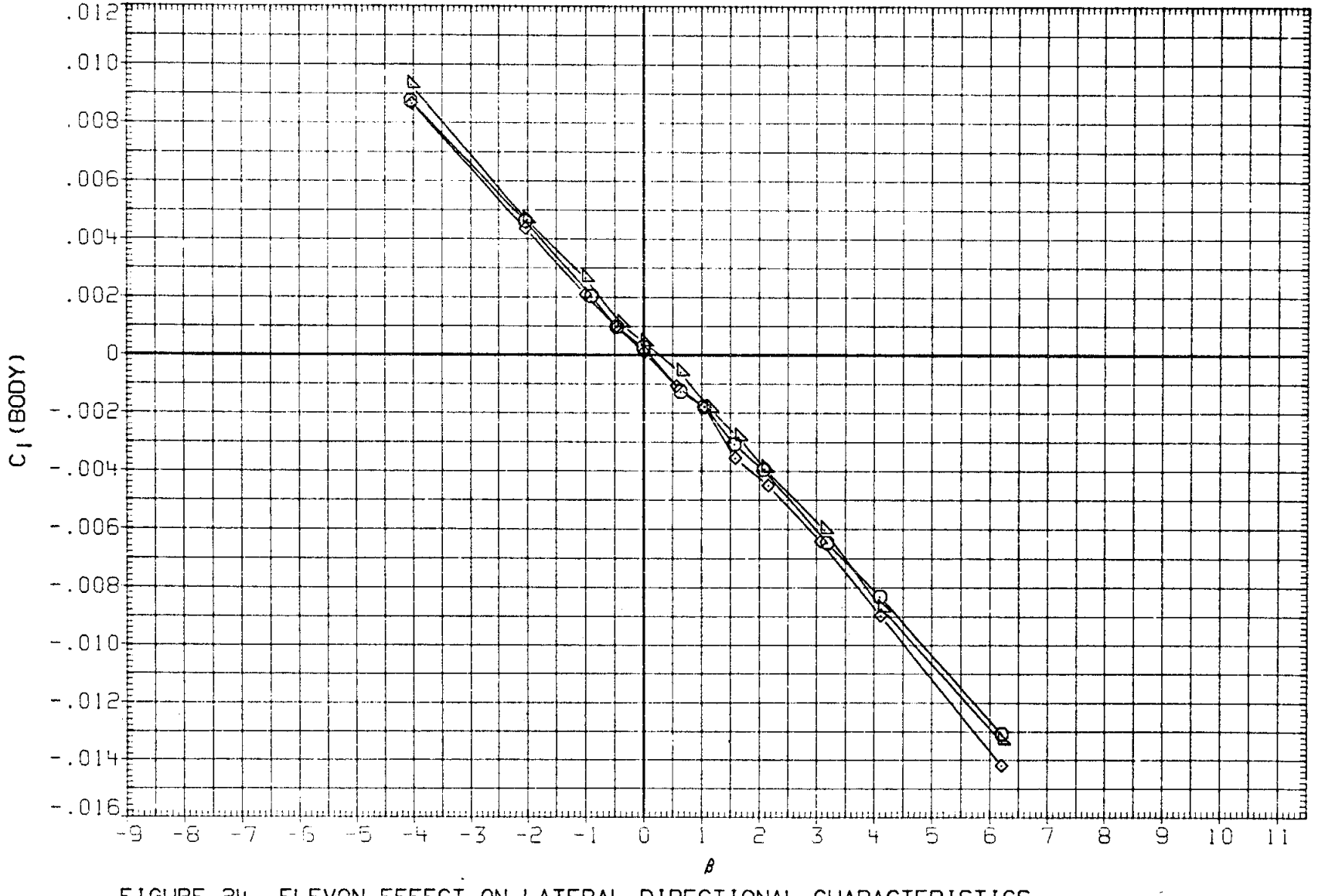

FIGURE 24. ELEVON EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS

(H)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0030	○	DATA NOT AVAILABLE	5.000	4.920	-.010	.000	25.500	-.030	90.000
R2F041	□	DATA NOT AVAILABLE	5.000	5.000	.000	.000	25.000	.000	
RK0027	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RK0029	▷	DATA NOT AVAILABLE	5.000	-4.790	.000	.000	25.500	-.030	90.000
R2F042	D	DATA NOT AVAILABLE	5.000	-5.000	.000	.000	25.000	.000	

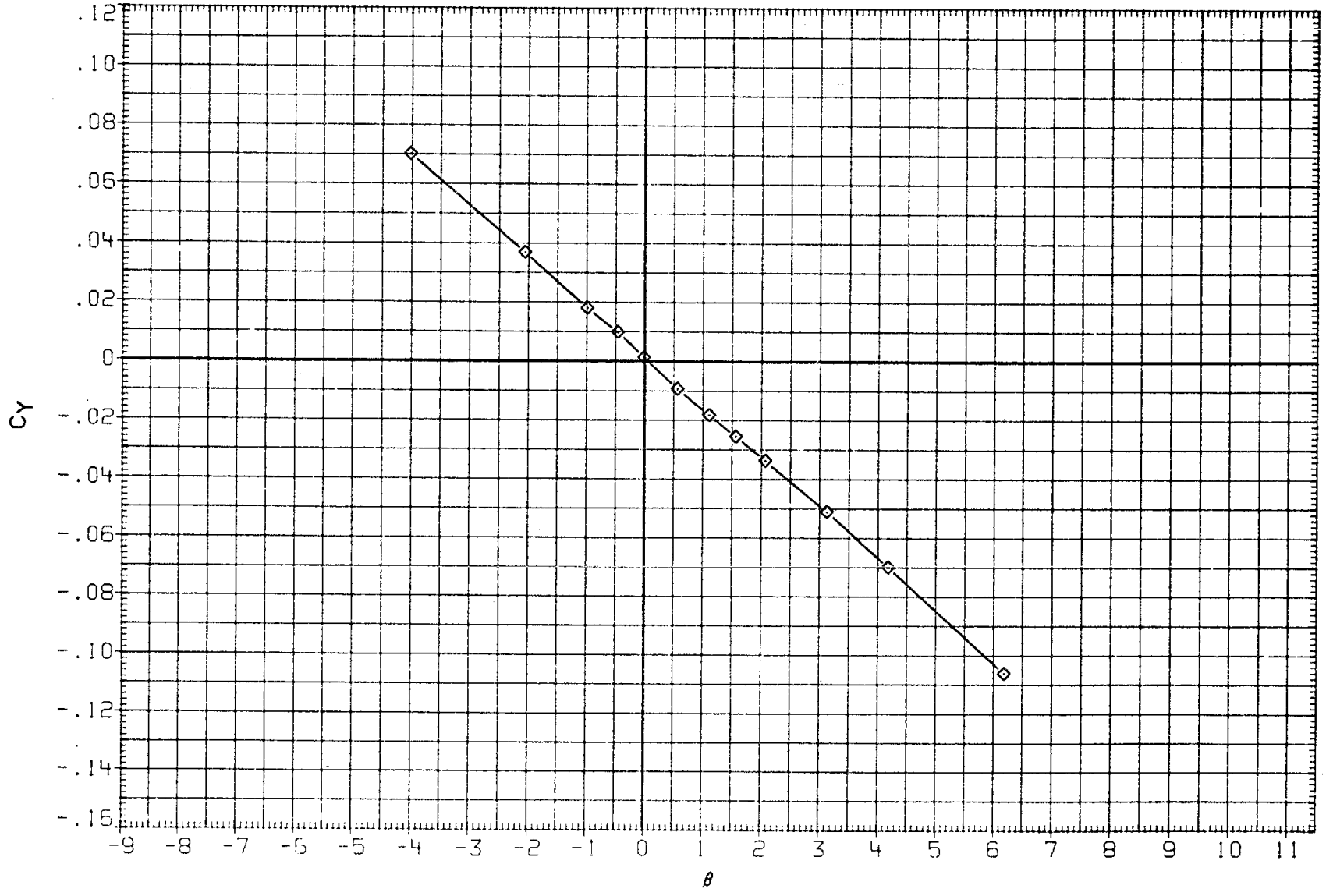

FIGURE 24. ELEVON EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS

(I)MACH = 1.07

DATA SET	SYMBOL	CONFIGURATION
RK0030	○	DATA NOT AVAILABLE
R2F041	□	DATA NOT AVAILABLE
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F018	△	DATA NOT AVAILABLE
RK0029	◺	DATA NOT AVAILABLE
R2F042	◻	DATA NOT AVAILABLE

ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
5.000	4.920	-.010	.000	25.500	-.030	90.000
5.000	5.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	25.500	-.030	90.000
5.000	.000	.000	.000	25.000	.000	
5.000	-4.790	.000	.000	25.500	-.030	90.000
5.000	-5.000	.000	.000	25.000	.000	

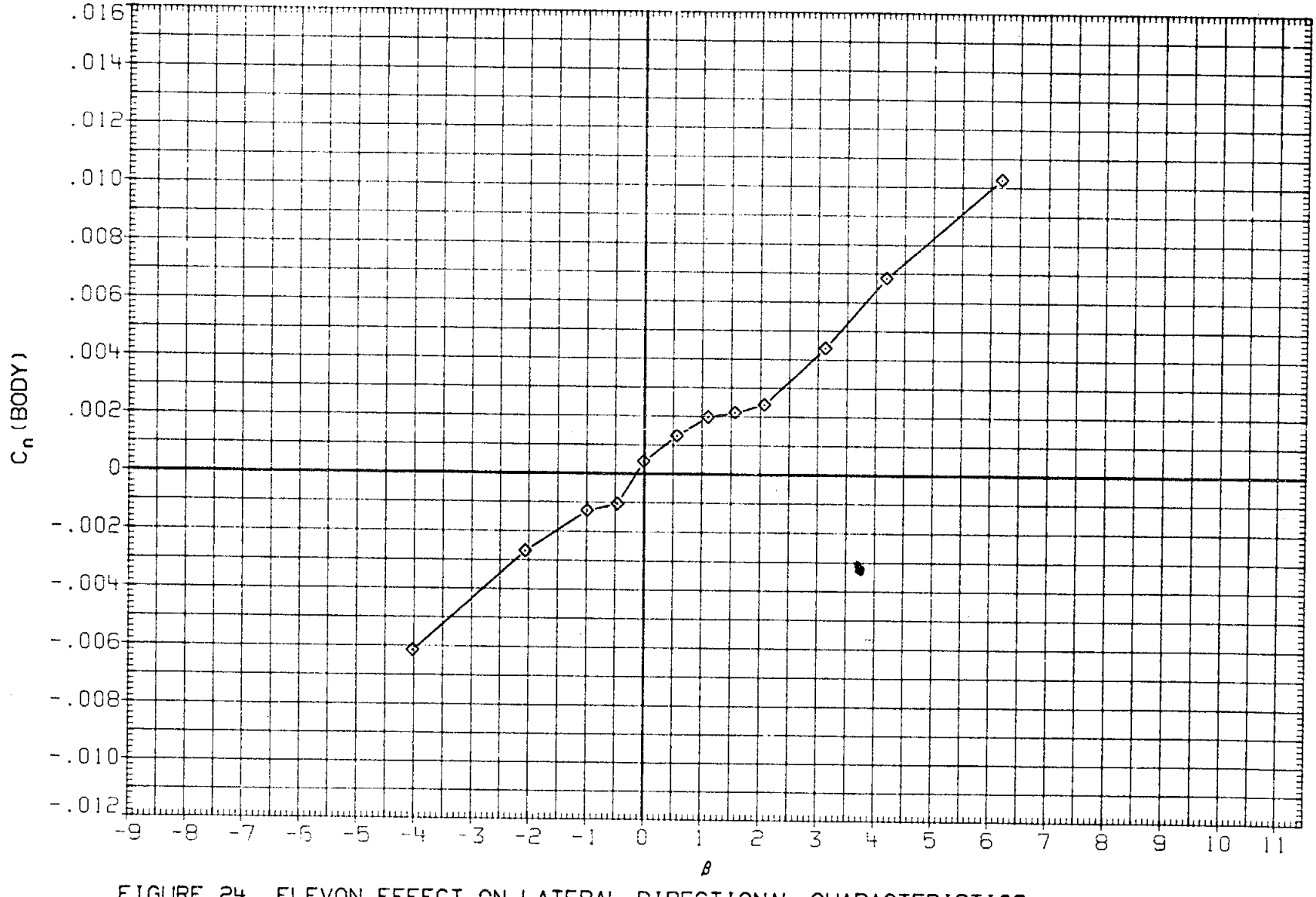

FIGURE 24. ELEVON EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS

(I)MACH = 1.07

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0030	○	DATA NOT AVAILABLE	5.000	4.920	-.010	.000	25.500	-.030	90.000
R2F041	□	DATA NOT AVAILABLE	5.000	5.000	.000	.000	25.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RK0029	◺	DATA NOT AVAILABLE	5.000	-4.790	.000	.000	25.500	-.030	90.000
R2F042	▷	DATA NOT AVAILABLE	5.000	-5.000	.000	.000	25.000	.000	

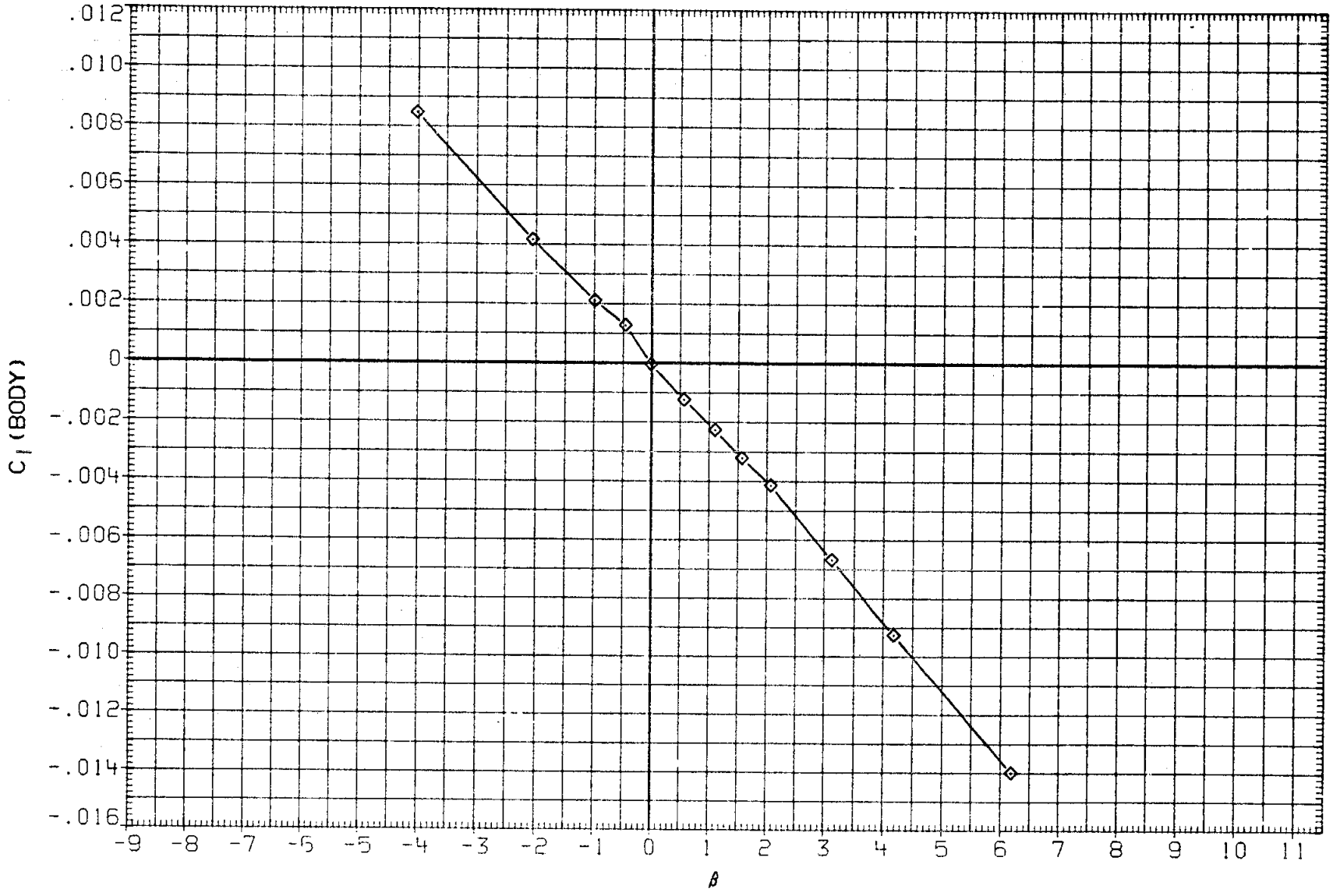

FIGURE 24. ELEVON EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS

(I)MACH = 1.07

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0030	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	5.000	4.920	-.010	.000	25.500	-.030	90.000
R2F041	□	AMES 118-1-11 0A145A 01	5.000	5.000	.000	.000	25.000	.000	
RK0027	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	AMES 118-1-11 0A145A 01	5.000	.000	.000	.000	25.000	.000	
RK0029	◁	LARC 16FT TWT 325(0A270B) 105-0 ORB.	5.000	-4.790	.000	.000	25.500	-.030	90.000
R2F042	▷	AMES 118-1-11 0A145A 01	5.000	-5.000	.000	.000	25.000	.000	

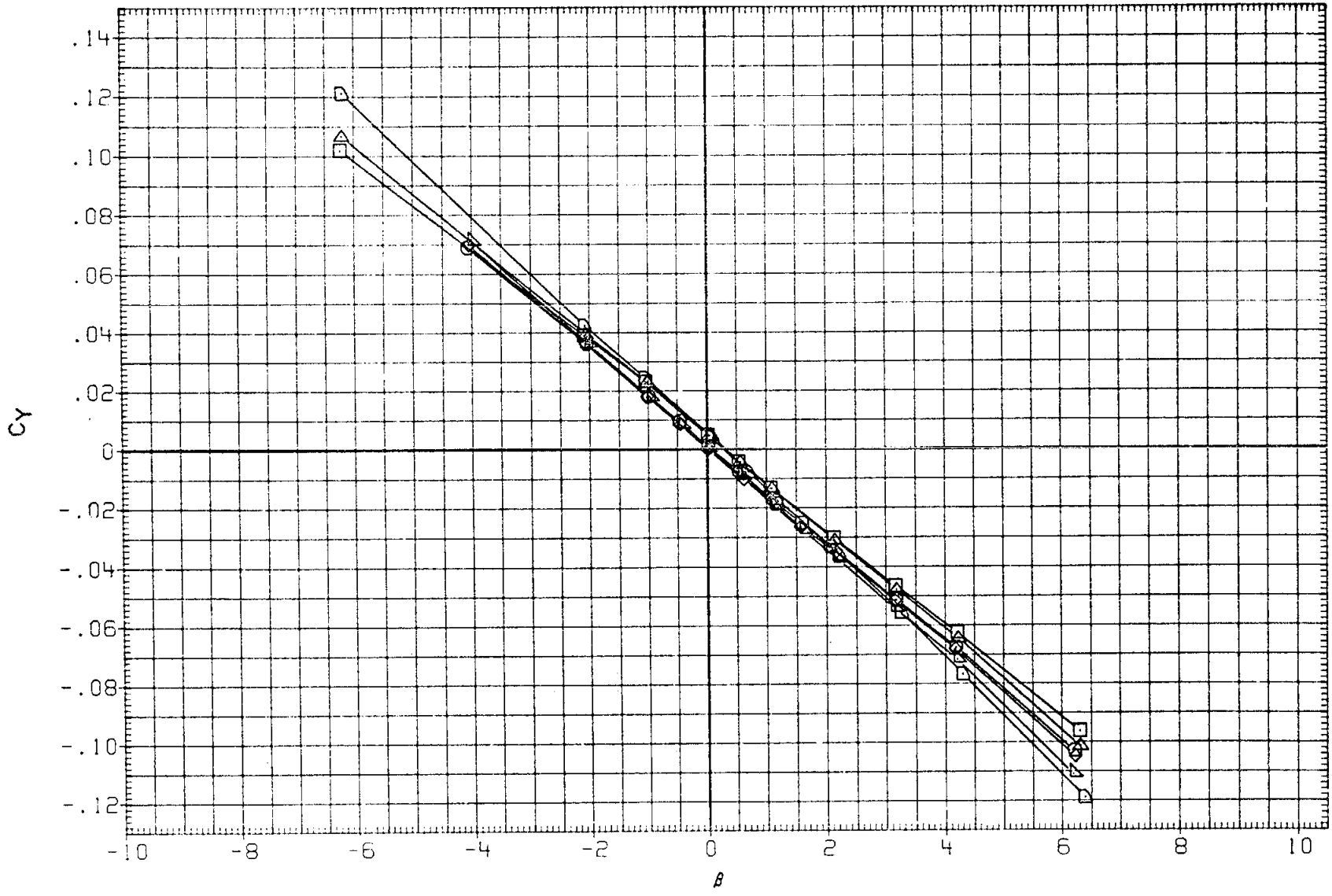

FIGURE 24. ELEVON EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS

(J)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0030	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	4.920	-.010	.000	25.500	-.030	90.000
R2F041	□	AMES 118-1-11 OA145A 01	5.000	5.000	.000	.000	25.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RK0029	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	-4.790	.000	.000	25.500	-.030	90.000
R2F042	◸	AMES 118-1-11 OA145A 01	5.000	-5.000	.000	.000	25.000	.000	

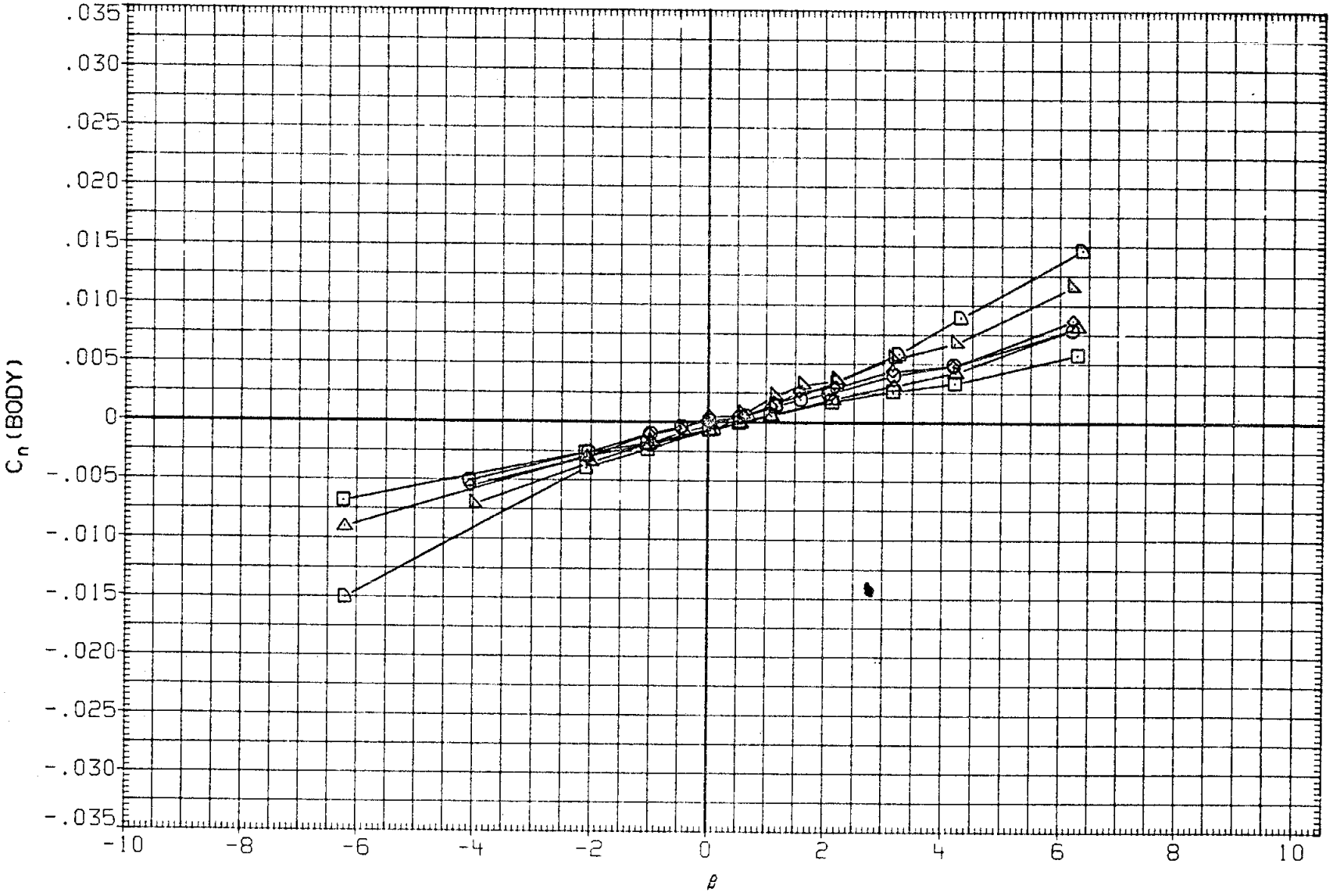

FIGURE 24. ELEVON EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS

(J)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0030	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	5.000	4.920	-.010	.000	25.500	-.030	90.000
R2F041	□	AMES 118-1-11 0A145A 01	5.000	5.000	.000	.000	25.000	.000	
RK0027	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	AMES 118-1-11 0A145A 01	5.000	.000	.000	.000	25.000	.000	
RK0029	◺	LARC 16FT TWT 325(0A270B) 105-0 ORB.	5.000	-4.790	.000	.000	25.500	-.030	90.000
R2F042	◻	AMES 118-1-11 0A145A 01	5.000	-5.000	.000	.000	25.000	.000	

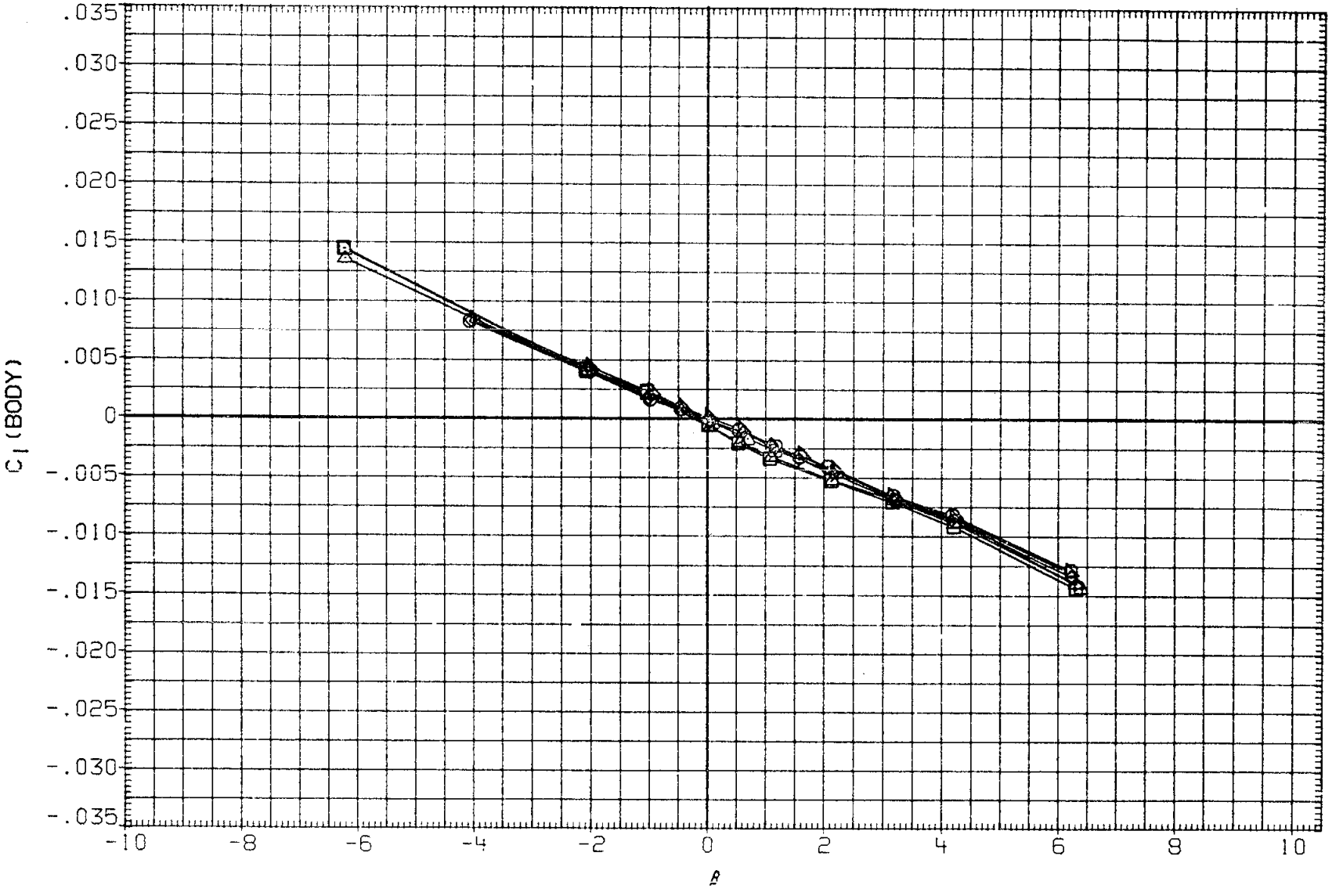

FIGURE 24. ELEVON EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS

(J)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION
RK0030	○	DATA NOT AVAILABLE
R2F041	□	DATA NOT AVAILABLE
RK0027	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.
R2F018	△	DATA NOT AVAILABLE
RK0029	◺	DATA NOT AVAILABLE
R2F042	◻	DATA NOT AVAILABLE

ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
5.000	4.920	-.010	.000	25.500	-.030	90.000
5.000	5.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	25.500	-.030	90.000
5.000	.000	.000	.000	25.000	.000	
5.000	-4.790	.000	.000	25.500	-.030	90.000
5.000	-5.000	.000	.000	25.000	.000	

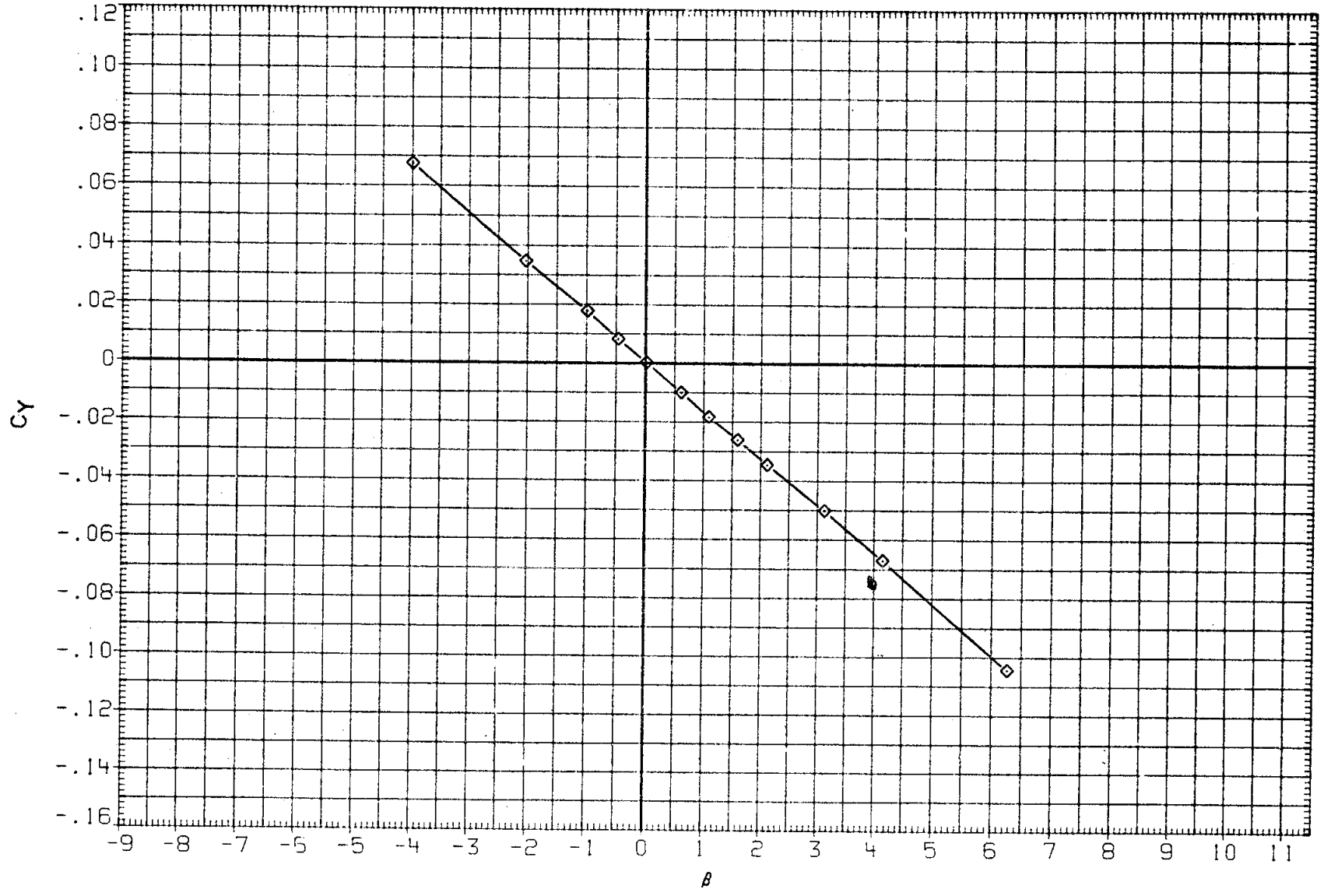

FIGURE 24. ELEVON EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS

(K)MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0030	○	DATA NOT AVAILABLE	5.000	4.920	-.010	.000	25.500	-.030	90.000
R2F041	□	DATA NOT AVAILABLE	5.000	5.000	.000	.000	25.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RK0029	▷	DATA NOT AVAILABLE	5.000	-4.790	.000	.000	25.500	-.030	90.000
R2F042	D	DATA NOT AVAILABLE	5.000	-5.000	.000	.000	25.000	.000	

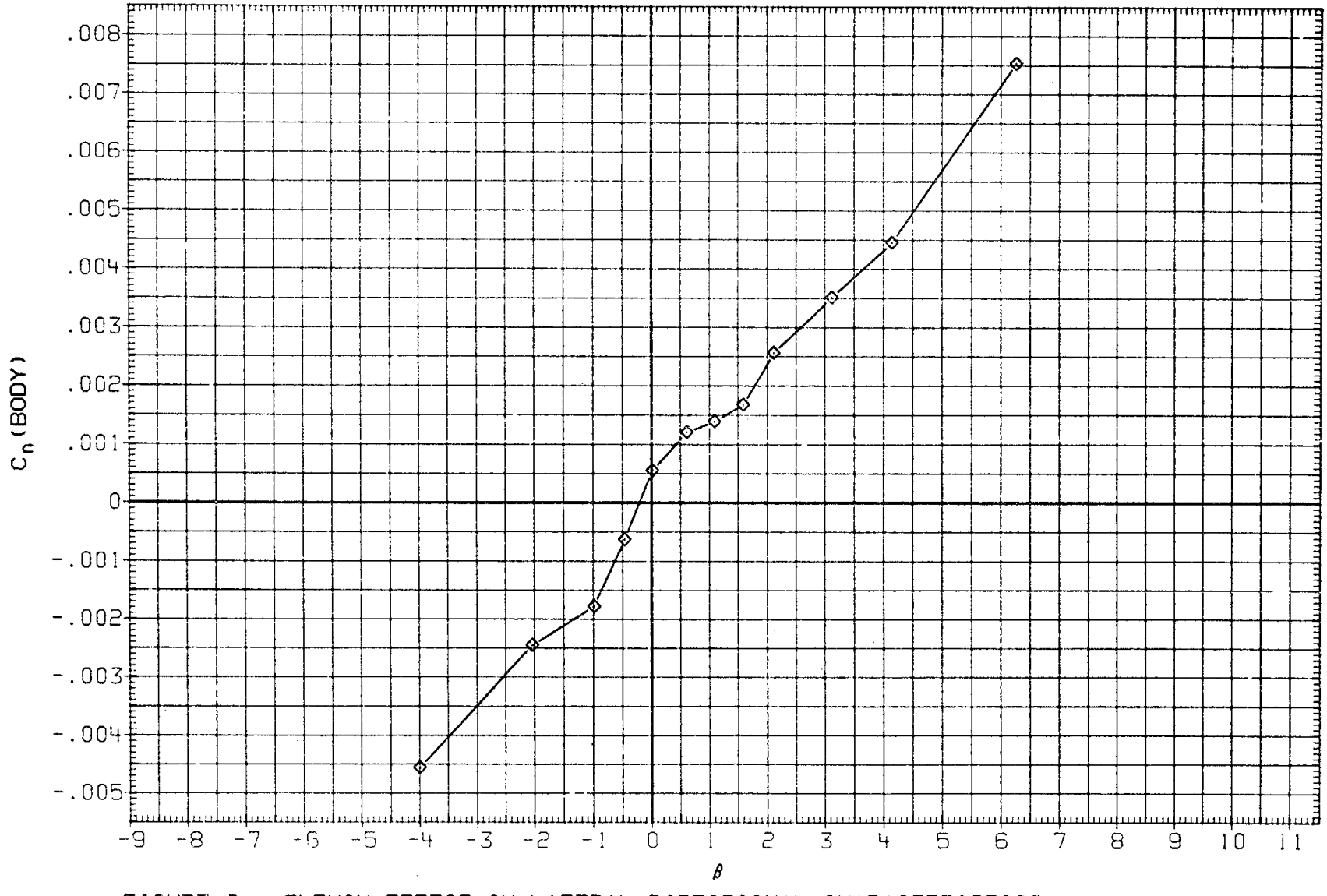

FIGURE 24. ELEVON EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS

(K)MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION
RK0030	○	DATA NOT AVAILABLE
R2F041	□	DATA NOT AVAILABLE
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F018	△	DATA NOT AVAILABLE
RK0029	◺	DATA NOT AVAILABLE
R2F042	◻	DATA NOT AVAILABLE

ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
5.000	4.920	-.010	.000	25.500	-.030	90.000
5.000	5.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	25.500	-.030	90.000
5.000	.000	.000	.000	25.000	.000	
5.000	-4.790	.000	.000	25.500	-.030	90.000
5.000	-5.000	.000	.000	25.000	.000	

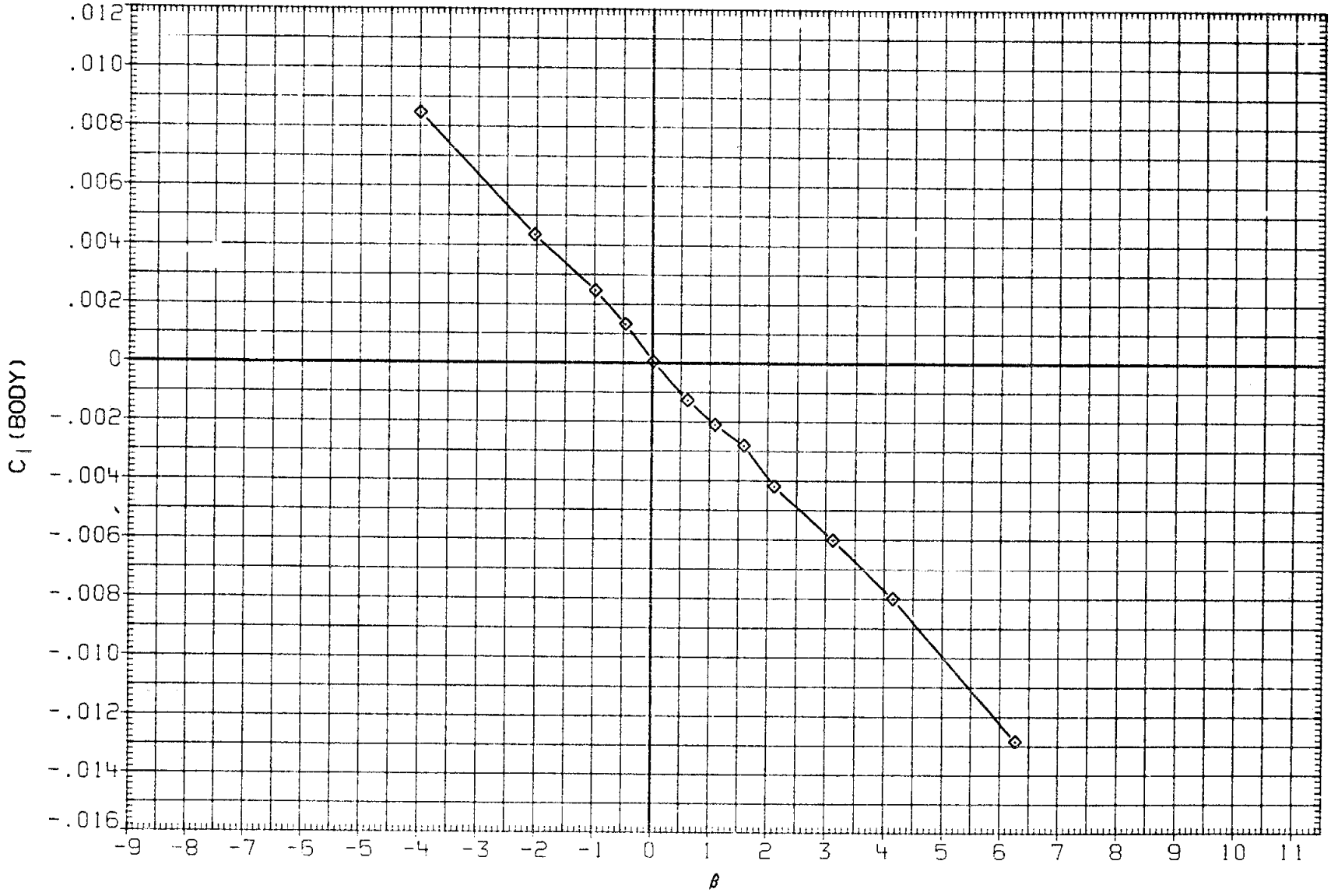

FIGURE 24. ELEVON EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS

(K)MACH = 1.15

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0030	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	4.920	-.010	.000	25.500	-.030	90.000
R2F041	□	AMES 118-1-11 OA145A 01	5.000	5.000	.000	.000	25.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RK0029	▷	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	-4.790	.000	.000	25.500	-.030	90.000
R2F042	D	AMES 118-1-11 OA145A 01	5.000	-5.000	.000	.000	25.000	.000	

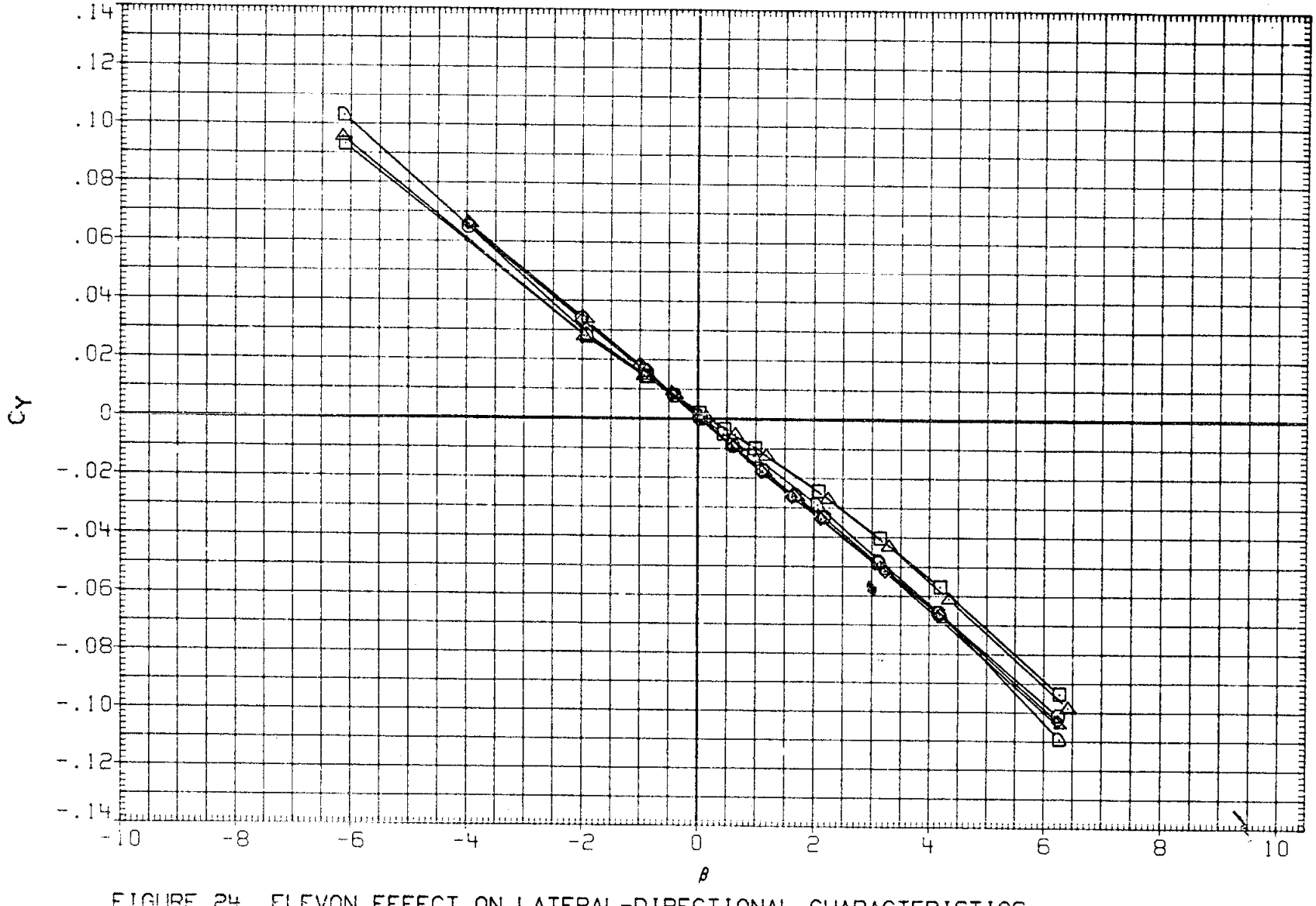

FIGURE 24. ELEVON EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS

(L)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0030	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	5.000	4.920	-.010	.000	25.500	-.030	90.000
R2F041	□	AMES 118-1-11 0A145A 01	5.000	5.000	.000	.000	25.000	.000	
RK0027	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	AMES 118-1-11 0A145A 01	5.000	.000	.000	.000	25.000	.000	
RK0029	◁	LARC 16FT TWT 325(0A270B) 105-0 ORB.	5.000	-4.790	.000	.000	25.500	-.030	90.000
R2F042	▷	AMES 118-1-11 0A145A 01	5.000	-5.000	.000	.000	25.000	.000	

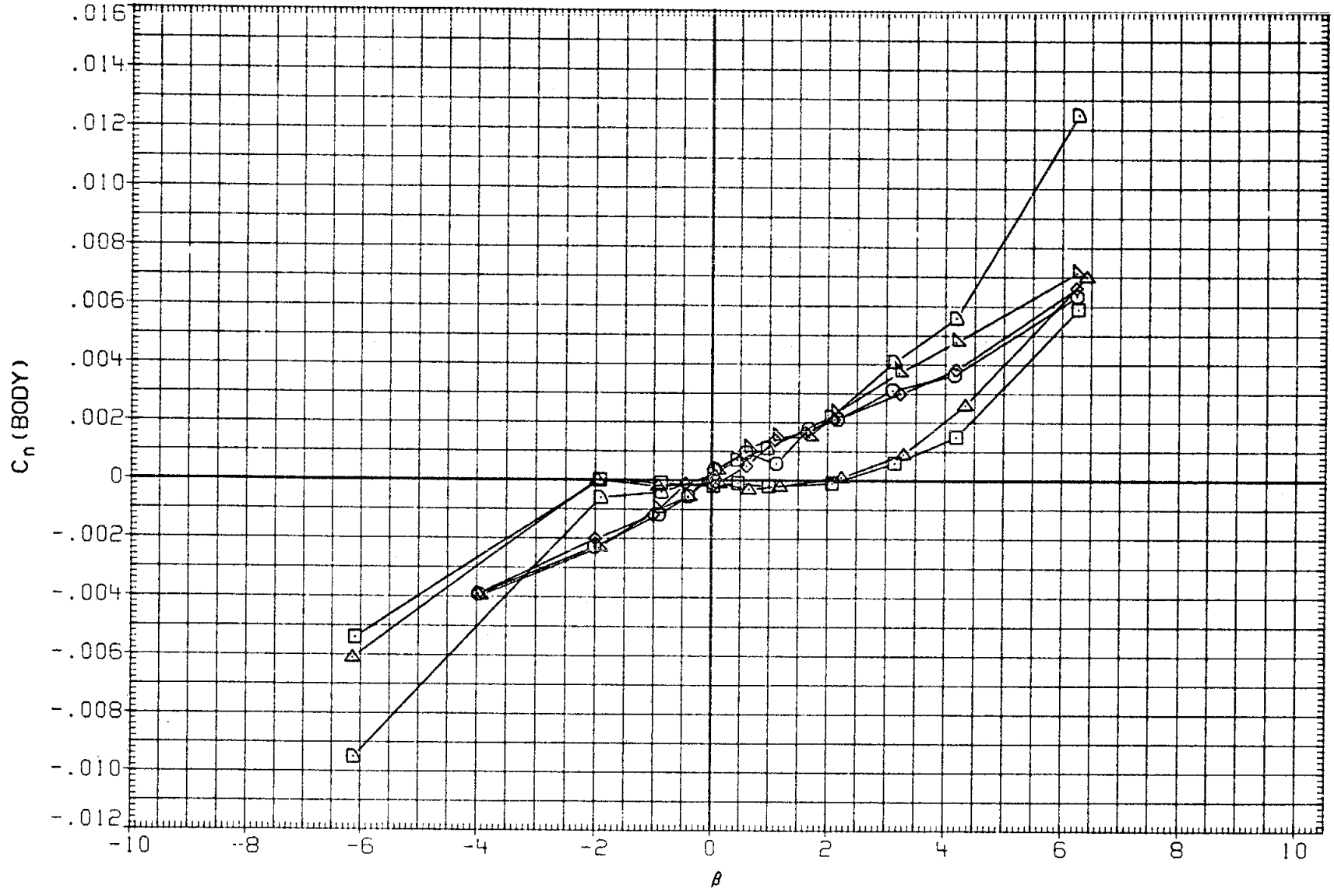

FIGURE 24. ELEVON EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS

(L)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION
RK0030	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F041	□	AMES 118-1-11 OA145A 01
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F018	△	AMES 118-1-11 OA145A 01
RK0029	◺	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F042	D	AMES 118-1-11 OA145A 01

ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
5.000	4.920	-.010	.000	25.500	-.030	90.000
5.000	5.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	25.500	-.030	90.000
5.000	.000	.000	.000	25.000	.000	
5.000	-4.790	.000	.000	25.500	-.030	90.000
5.000	-5.000	.000	.000	25.000	.000	

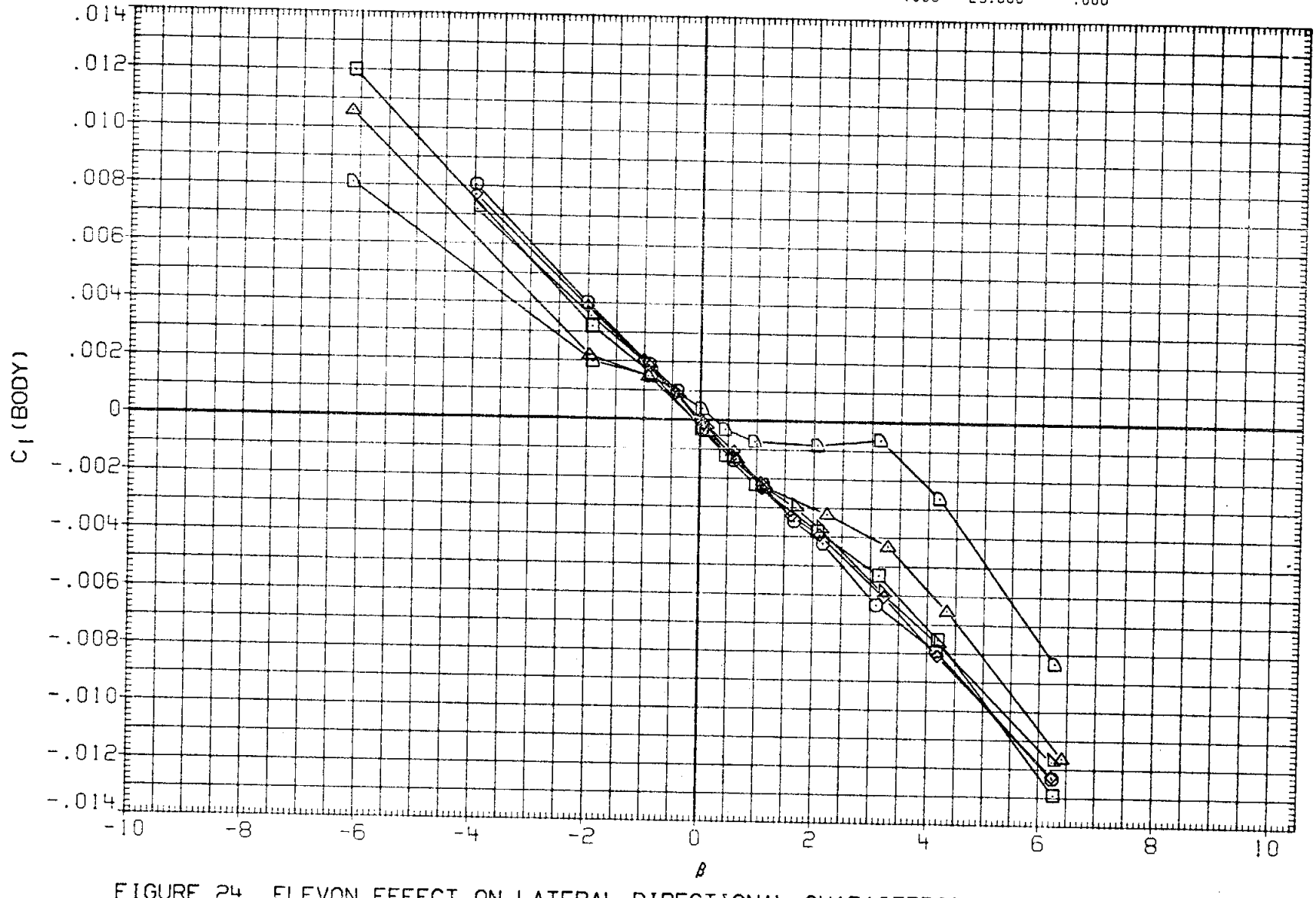

FIGURE 24. ELEVON EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS

(L)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION
RK0030	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F041	□	DATA NOT AVAILABLE
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F018	△	DATA NOT AVAILABLE
RK0029	◺	DATA NOT AVAILABLE
R2F042	D	DATA NOT AVAILABLE

ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
5.000	4.920	-.010	.000	25.500	-.030	90.000
5.000	5.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	25.500	-.030	90.000
5.000	.000	.000	.000	25.000	.000	
5.000	-4.790	.000	.000	25.500	-.030	90.000
5.000	-5.000	.000	.000	25.000	.000	

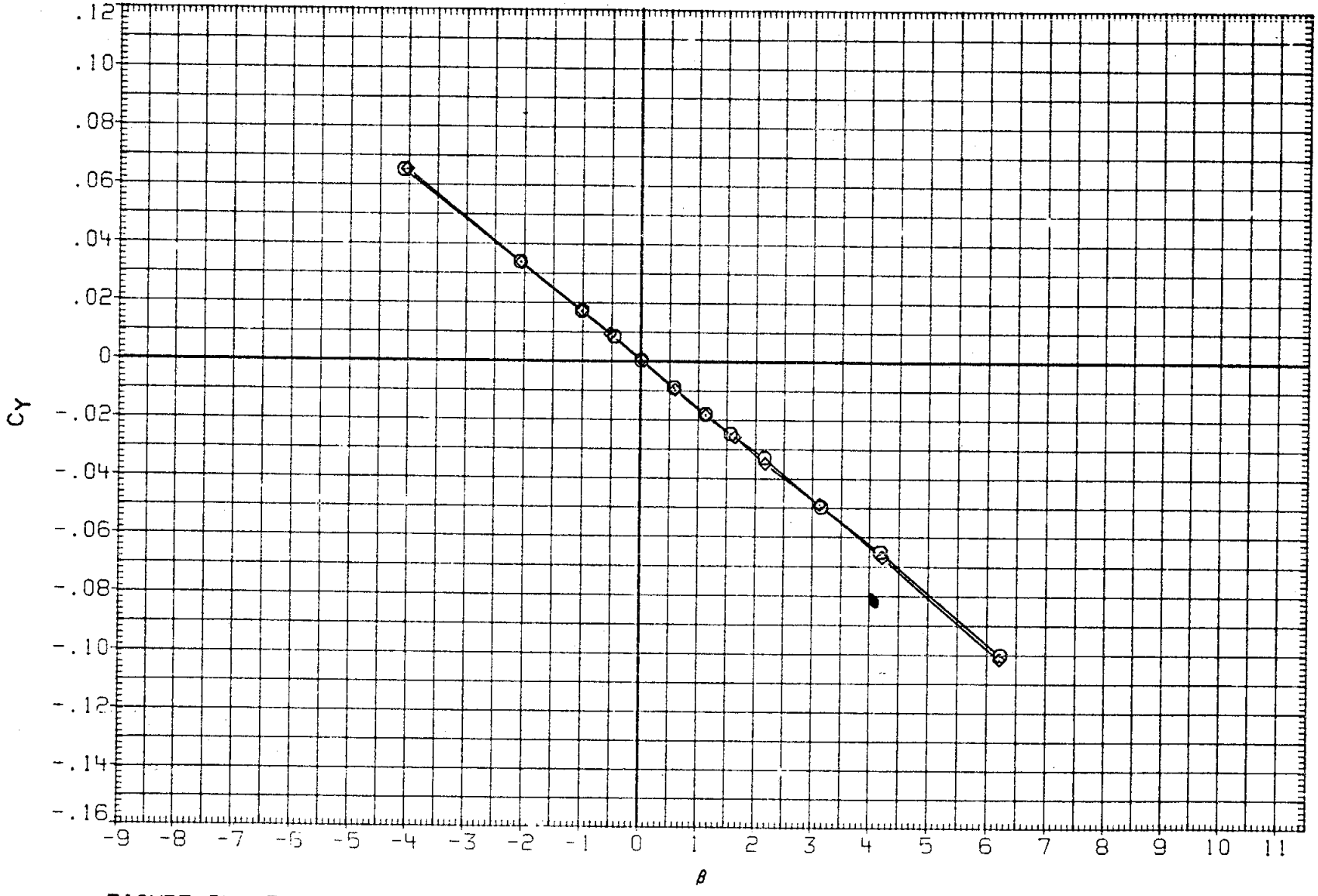

FIGURE 24. ELEVON EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS

(M)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0030	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	4.920	-.010	.000	25.500	-.030	90.000
R2F041	□	DATA NOT AVAILABLE	5.000	5.000	.000	.000	25.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RK0029	▷	DATA NOT AVAILABLE	5.000	-4.790	.000	.000	25.500	-.030	90.000
R2F042	D	DATA NOT AVAILABLE	5.000	-5.000	.000	.000	25.000	.000	

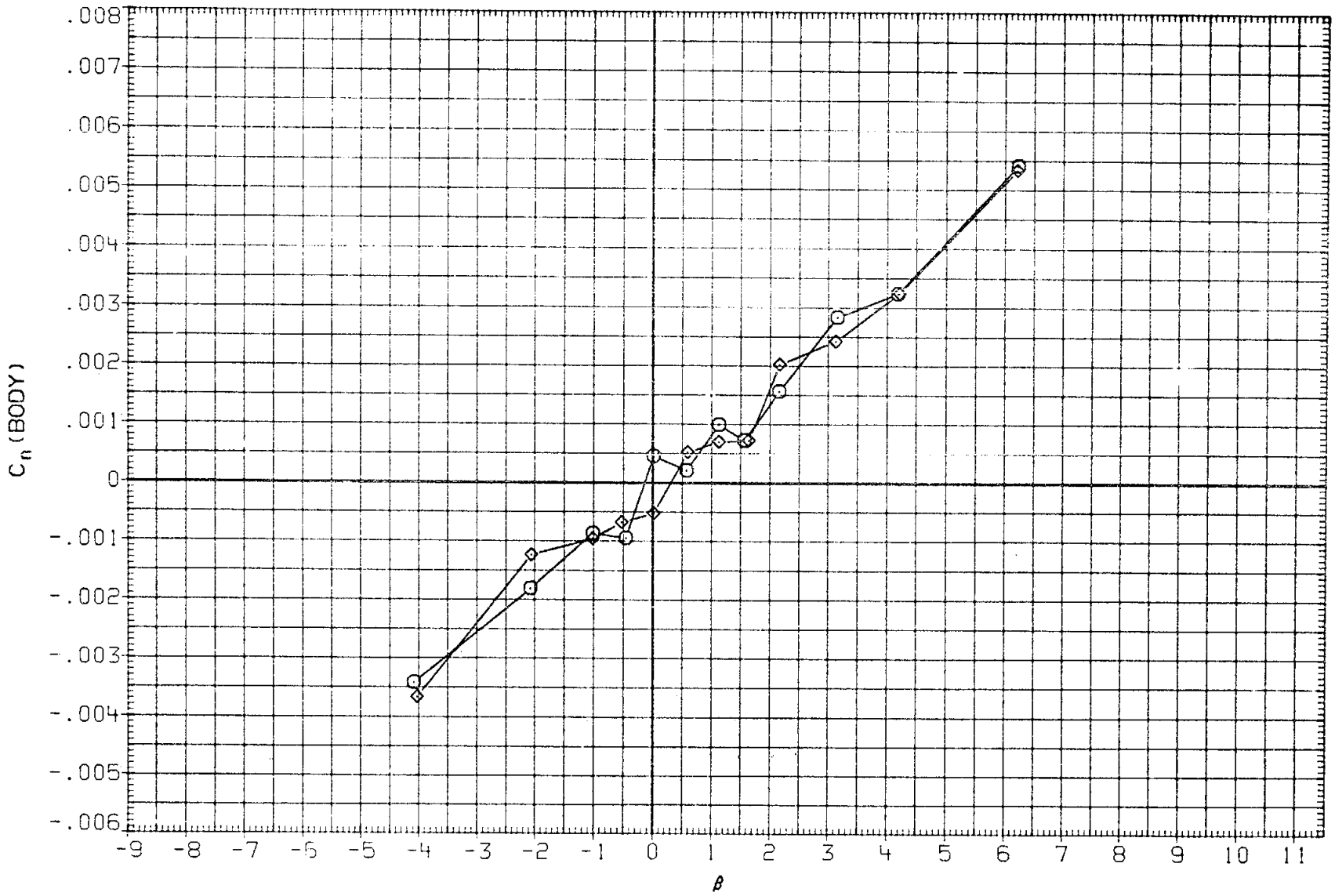

FIGURE 24. ELEVON EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS

(M)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0030	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	4.920	-.010	.000	25.500	-.030	90.000
R2F041	□	DATA NOT AVAILABLE	5.000	5.000	.000	.000	25.000	.000	
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
RK0029	◁	DATA NOT AVAILABLE	5.000	-4.790	.000	.000	25.500	-.030	90.000
R2F042	D	DATA NOT AVAILABLE	5.000	-5.000	.000	.000	25.000	.000	

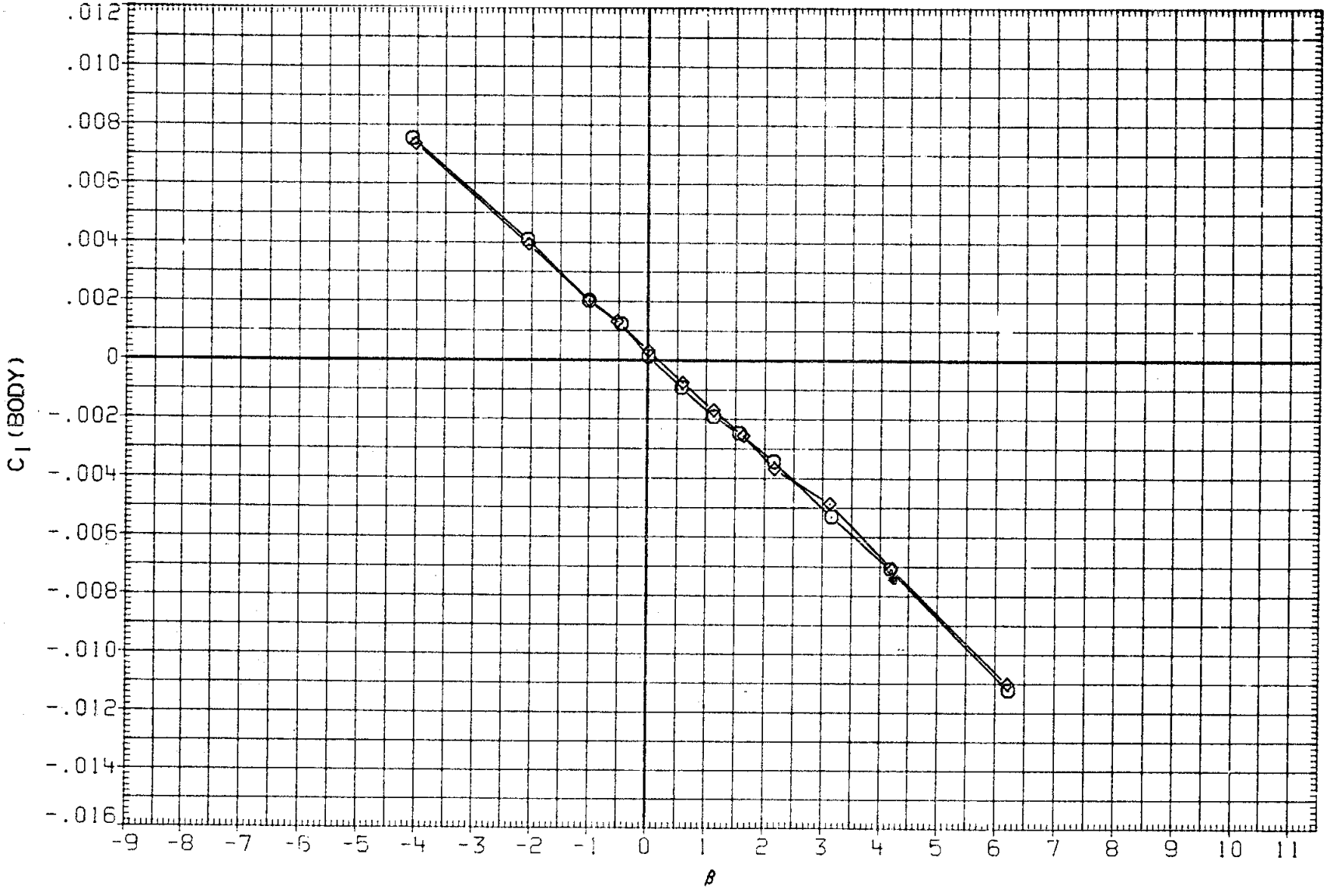

FIGURE 24. ELEVON EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS

(M)MACH = 1.25

DATA SET	SYMBOL	CONFIGURATION
RK0030	○	DATA NOT AVAILABLE
R2F041	□	AMES 118-1-11 0A145A 01
RK0027	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.
R2F018	△	AMES 118-1-11 0A145A 01
RK0029	◺	DATA NOT AVAILABLE
R2F042	D	AMES 118-1-11 0A145A 01

ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
5.000	4.920	-.010	.000	25.500	-.030	90.000
5.000	5.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	25.500	-.030	90.000
5.000	.000	.000	.000	25.000	.000	
5.000	-4.790	.000	.000	25.500	-.030	90.000
5.000	-5.000	.000	.000	25.000	.000	

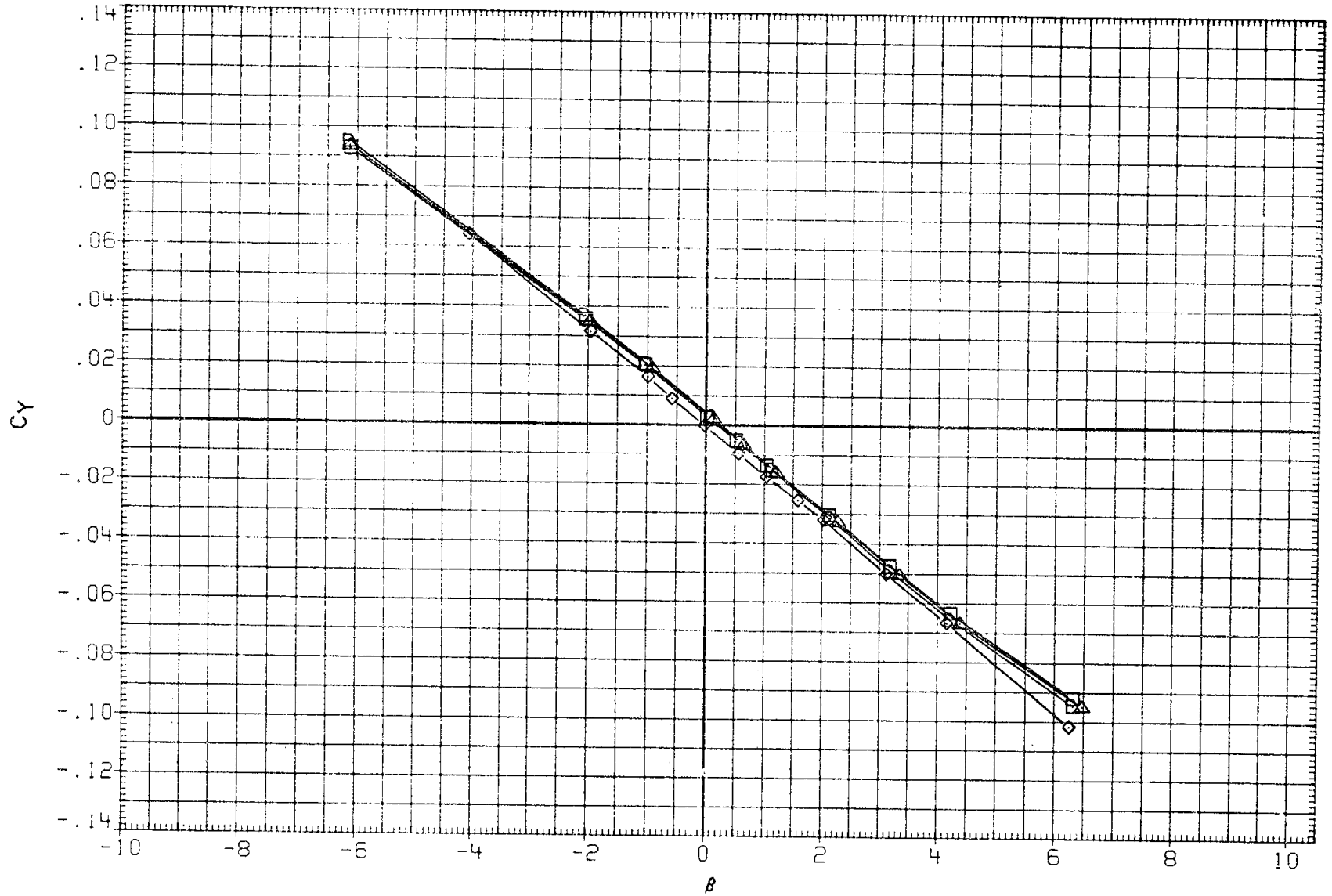

FIGURE 24. ELEVON EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS

(N)MACH = 1.29

DATA SET	SYMBOL	CONFIGURATION
RK0030	○	DATA NOT AVAILABLE
R2F041	□	AMES 118-1-11 OA145A 01
RK0027	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.
R2F018	△	AMES 118-1-11 OA145A 01
RK0029	◁	DATA NOT AVAILABLE
R2F042	D	AMES 118-1-11 OA145A 01

ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
5.000	4.920	-.010	.000	25.500	-.030	90.000
5.000	5.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	25.500	-.030	90.000
5.000	.000	.000	.000	25.000	.000	
5.000	-4.790	.000	.000	25.500	-.030	90.000
5.000	-5.000	.000	.000	25.000	.000	

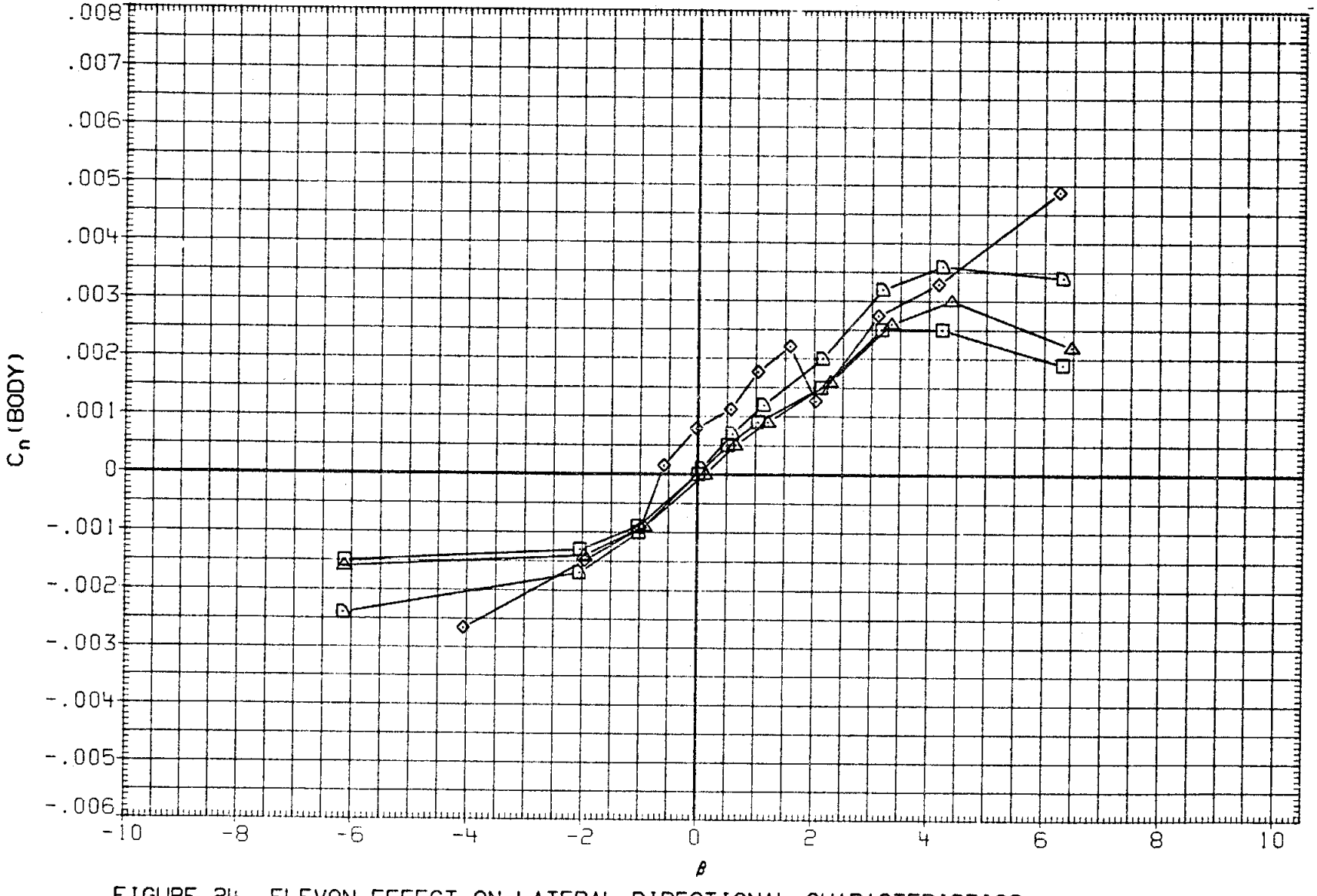

FIGURE 24. ELEVON EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS

(N)MACH = 1.29

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0030	○	DATA NOT AVAILABLE	5.000	4.920	-.010	.000	25.500	-.030	90.000
R2F041	□	AMES 118-1-11 0A145A 01	5.000	5.000	.000	.000	25.000	.000	
RK0027	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	AMES 118-1-11 0A145A 01	5.000	.000	.000	.000	25.000	.000	
RK0029	◺	DATA NOT AVAILABLE	5.000	-4.790	.000	.000	25.500	-.030	90.000
R2F042	◻	AMES 118-1-11 0A145A 01	5.000	-5.000	.000	.000	25.000	.000	

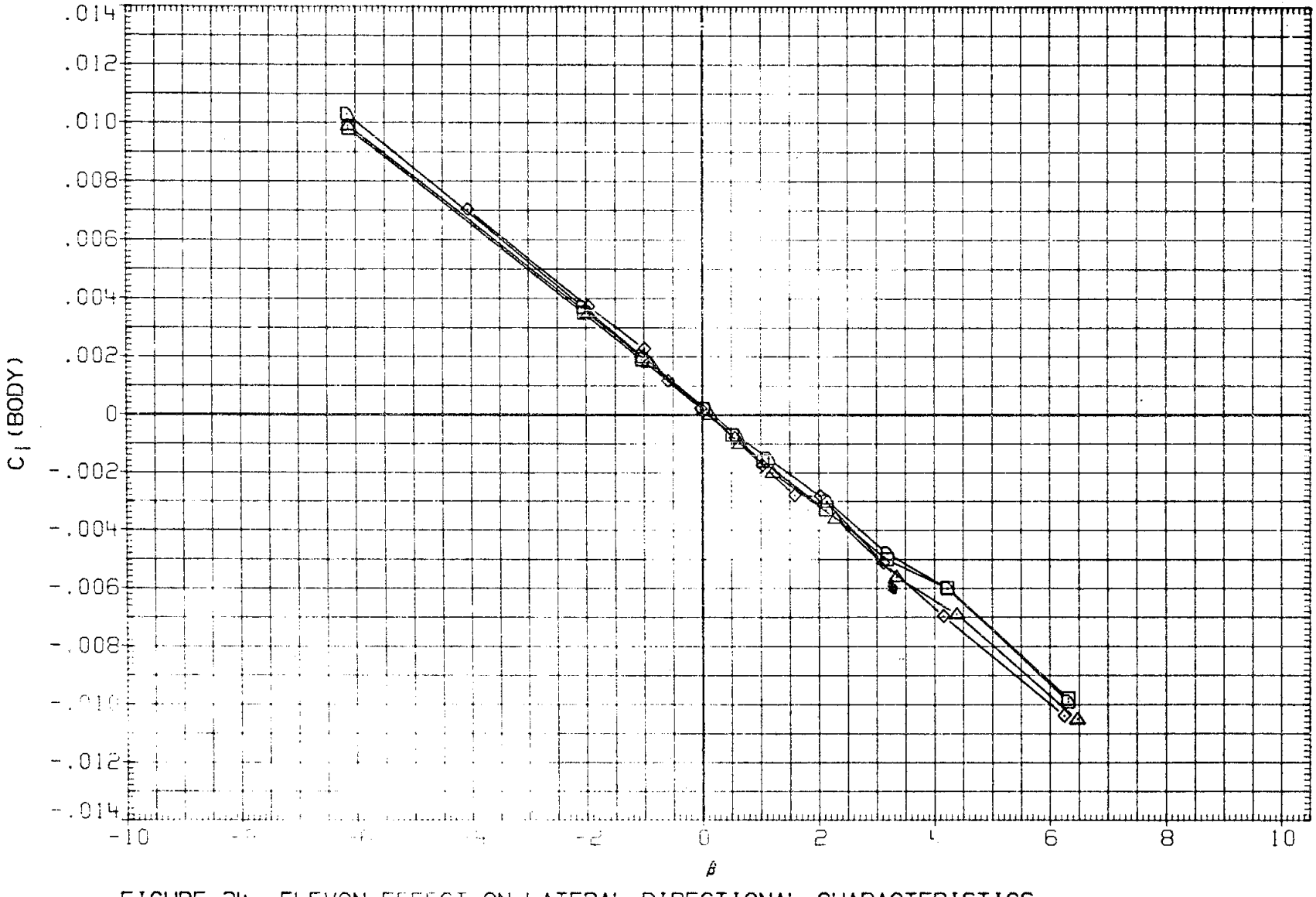

FIGURE 24. ELEVON EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS

(N)MACH = 1.29

DATA SET	SYMBOL	CONFIGURATION
RK0030	○	DATA NOT AVAILABLE
R2F041	□	AMES 118-1-11 OA145A 01
RK0027	◇	DATA NOT AVAILABLE
R2F018	△	AMES 118-1-11 OA145A 01
RK0029	◺	DATA NOT AVAILABLE
R2F042	◻	AMES 118-1-11 OA145A 01

ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
5.000	4.920	-.010	.000	25.500	-.030	90.000
5.000	5.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	25.500	-.030	90.000
5.000	.000	.000	.000	25.000	.000	
5.000	-4.790	.000	.000	25.500	-.030	90.000
5.000	-5.000	.000	.000	25.000	.000	

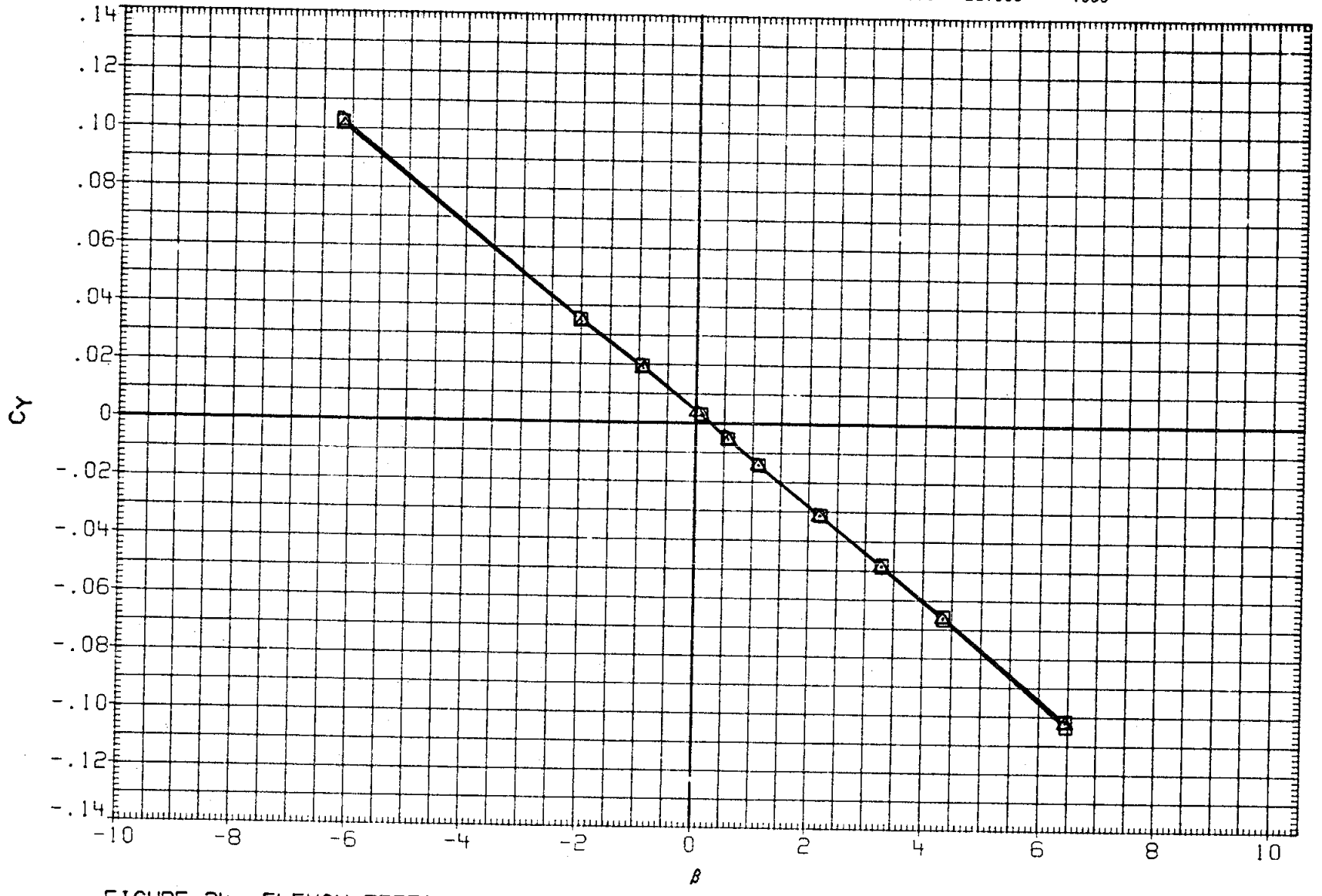

FIGURE 24. ELEVON EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS

(O)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0030	○	DATA NOT AVAILABLE	5.000	4.920	-.010	.000	25.500	-.030	90.000
R2F041	□	AMES 118-1-11 OA145A 01	5.000	5.000	.000	.000	25.000	.000	
RK0027	◇	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.500	-.030	90.000
R2F018	△	AMES 118-1-11 OA145A 01	5.000	.000	.000	.000	25.000	.000	
RK0029	◺	DATA NOT AVAILABLE	5.000	-4.790	.000	.000	25.500	-.030	90.000
R2F042	◺	AMES 118-1-11 OA145A 01	5.000	-5.000	.000	.000	25.000	.000	

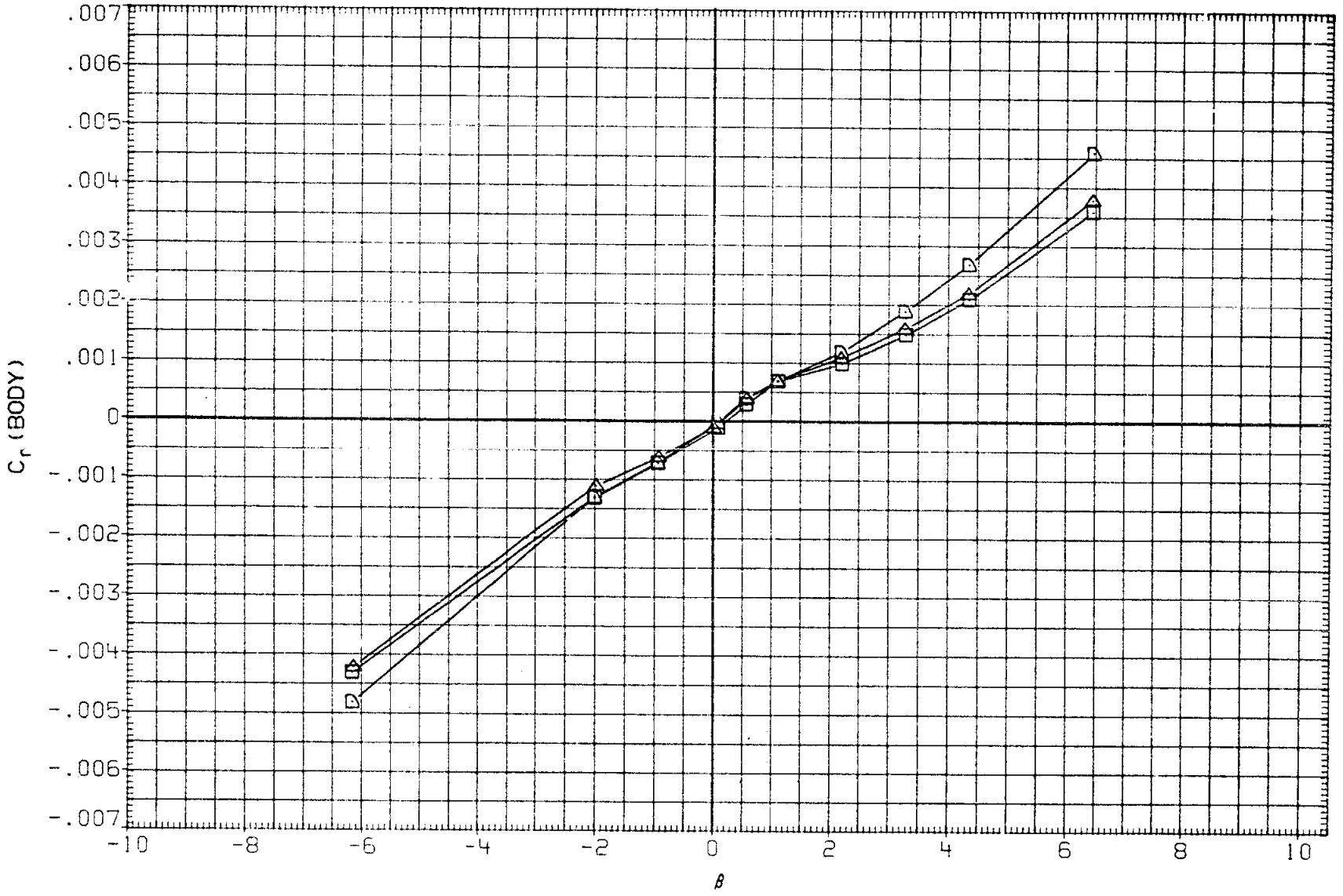

FIGURE 24. ELEVON EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS

(O) MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION
RK0030	○	DATA NOT AVAILABLE
R2F041	□	AMES 118-1-11 OA145A 01
RK0027	◇	DATA NOT AVAILABLE
R2F018	△	AMES 118-1-11 OA145A 01
RK0029	◺	DATA NOT AVAILABLE
R2F042	◻	AMES 118-1-11 OA145A 01

ALPHA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
5.000	4.920	-.010	.000	25.500	-.030	90.000
5.000	5.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	25.500	-.030	90.000
5.000	.000	.000	.000	25.000	.000	
5.000	-4.790	.000	.000	25.500	-.030	90.000
5.000	-5.000	.000	.000	25.000	.000	

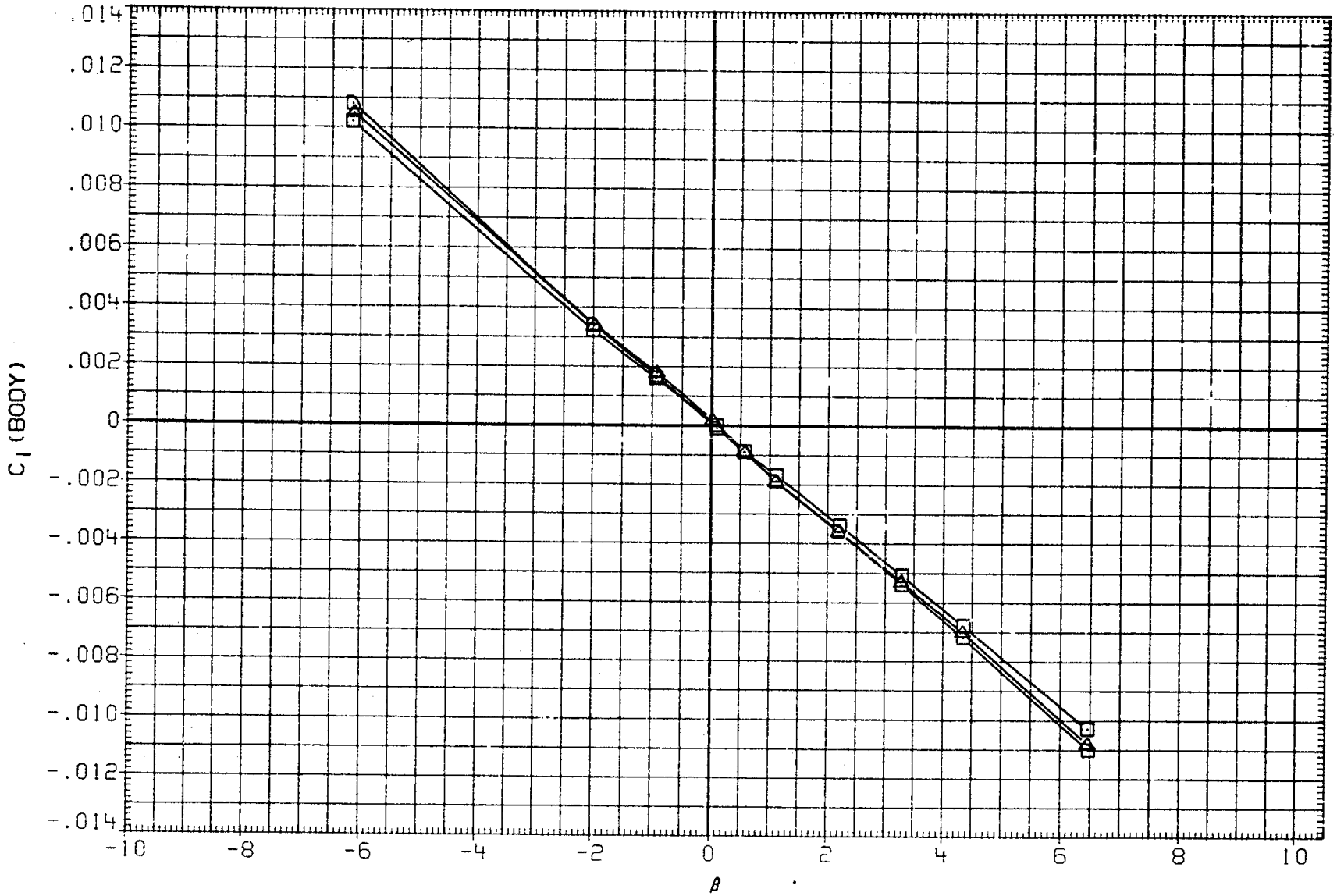

FIGURE 24. ELEVON EFFECT ON LATERAL-DIRECTIONAL CHARACTERISTICS

(O)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0006	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
RKN021	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	5.000	.000	.000	25.000	.000	.000
RK0022	◇	DATA NOT AVAILABLE	2.000	4.920	-.010	.000	25.500	-.030	.000
OKN014	△	LARC 16FT TWT 326(OA270A) 39-0 ORB.	2.000	5.000	.000	.000	25.000	.000	.000

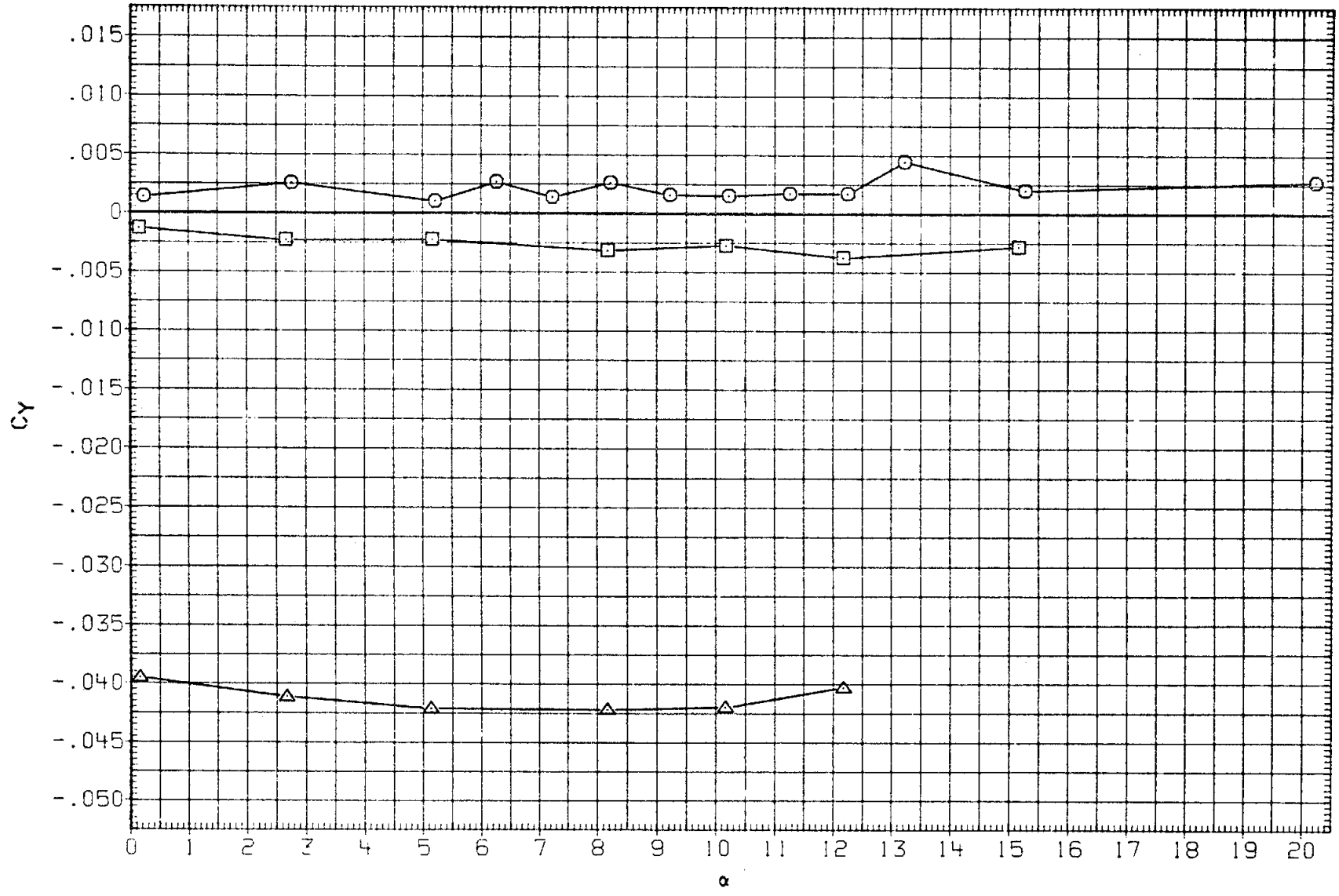

FIGURE 25. ELEVON EFFECTIVENESS WITH SIDESLIP

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION
RK0006	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.
RKN021	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.
RK0022	◇	DATA NOT AVAILABLE
OKN014	△	LARC 16FT TWT 326(CA270A) 39-0 ORB.

BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
.000	4.920	-.010	.000	25.500	-.030	.000
.000	5.000	.000	.000	25.000	.000	.000
2.000	4.920	-.010	.000	25.500	-.030	.000
2.000	5.000	.000	.000	25.000	.000	.000

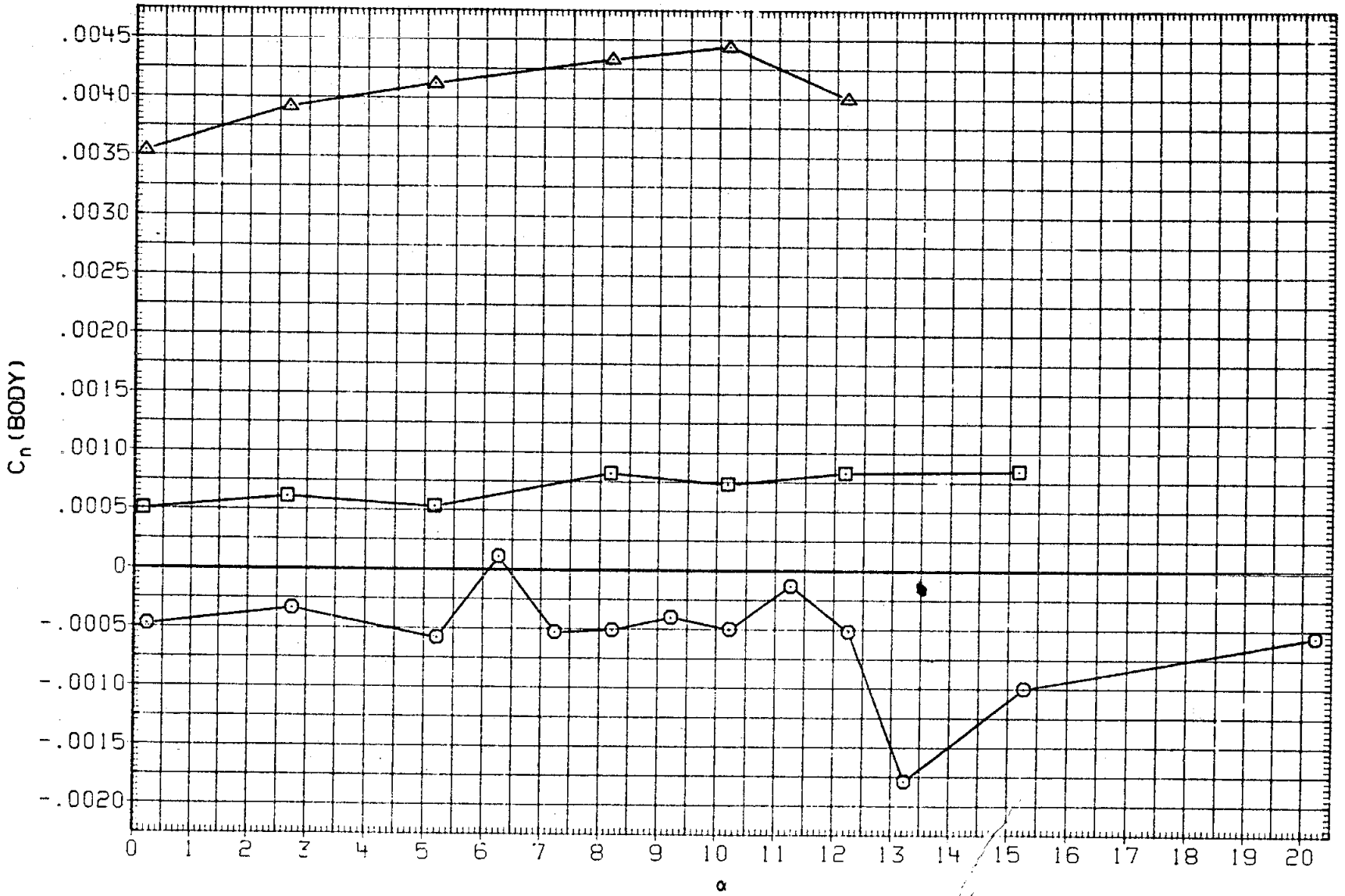

FIGURE 25. ELEVON EFFECTIVENESS WITH SIDESLIP

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION
RK0006	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.
RKN021	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.
RK0022	◇	DATA NOT AVAILABLE
OKN014	△	LARC 16FT TWT 326(OA270A) 39-0 ORB.

BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
.000	4.920	-.010	.000	25.500	-.030	.000
.000	5.000	.000	.000	25.000	.000	.000
2.000	4.920	-.010	.000	25.500	-.030	.000
2.000	5.000	.000	.000	25.000	.000	.000

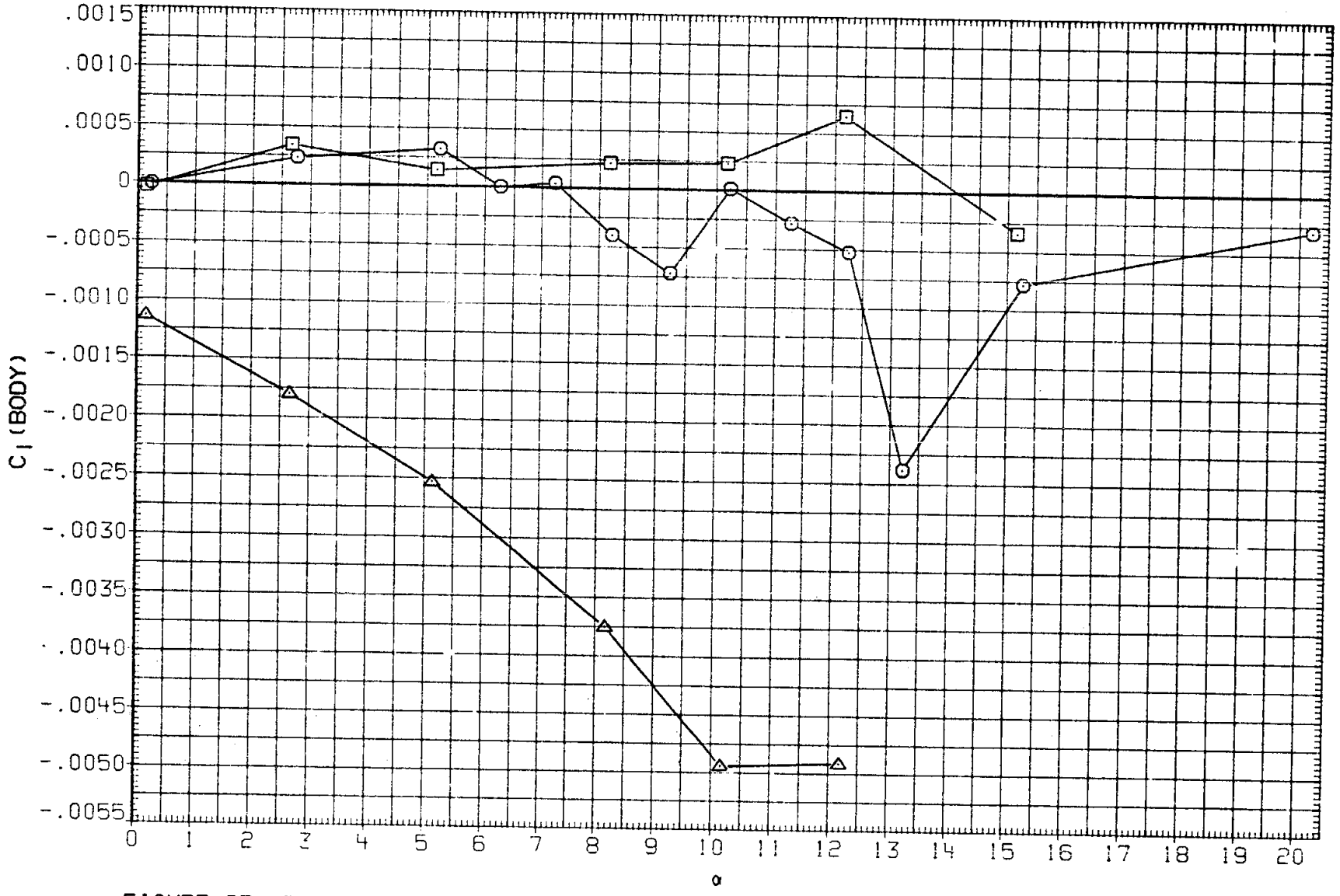

FIGURE 25. ELEVON EFFECTIVENESS WITH SIDESLIP

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION
RK0006	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.
RKN021	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.
RK0022	◇	DATA NOT AVAILABLE
OKN014	△	DATA NOT AVAILABLE

BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
.000	4.920	-.010	.000	25.500	-.030	.000
.000	5.000	.000	.000	25.000	.000	.000
2.000	4.920	-.010	.000	25.500	-.030	.000
2.000	5.000	.000	.000	25.000	.000	.000

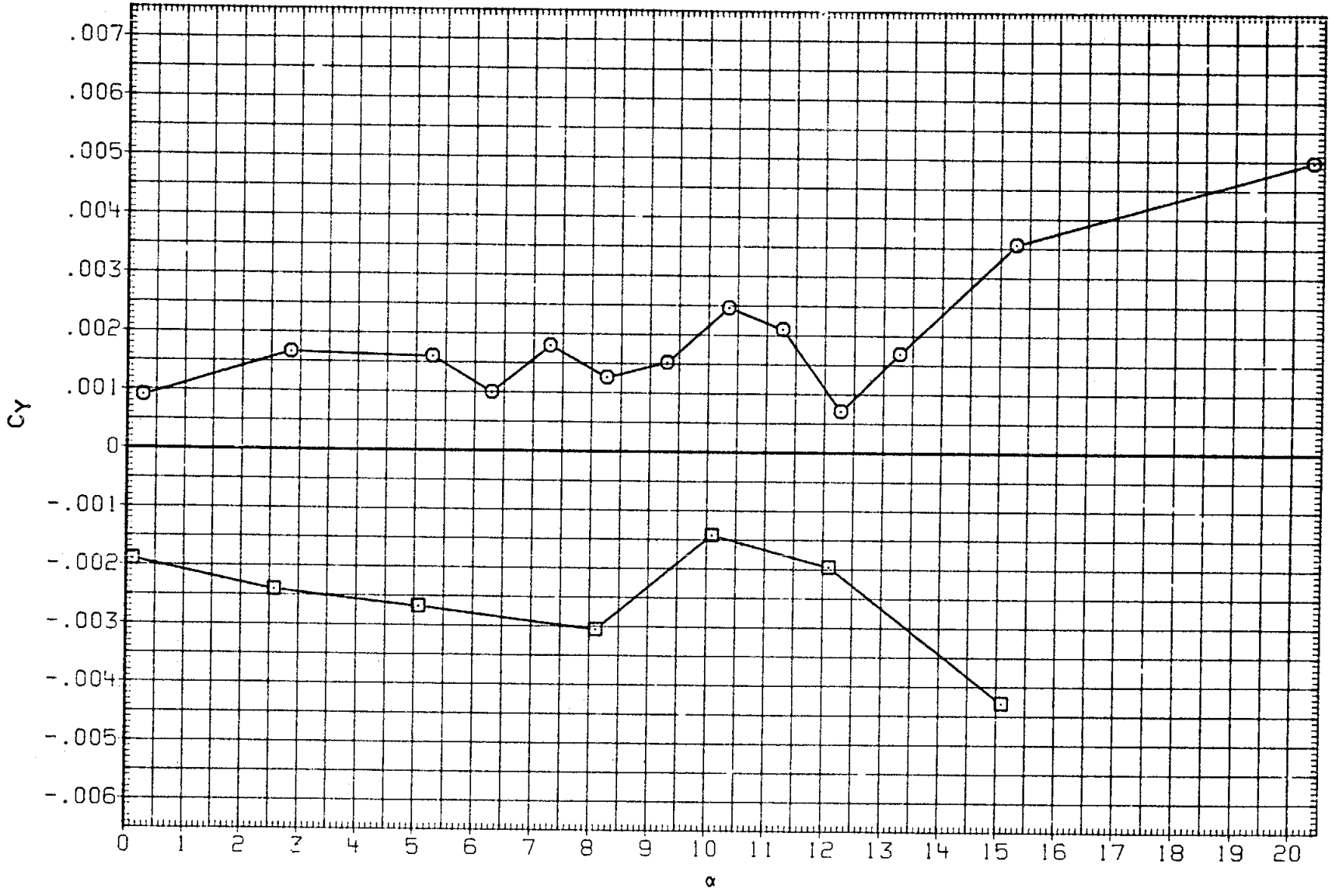

FIGURE 25. ELEVON EFFECTIVENESS WITH SIDESLIP

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0006	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
RKN021	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	5.000	.000	.000	25.000	.000	.000
RK0022	◇	DATA NOT AVAILABLE	2.000	4.920	-.010	.000	25.500	-.030	.000
OKN014	△	DATA NOT AVAILABLE	2.000	5.000	.000	.000	25.000	.000	.000

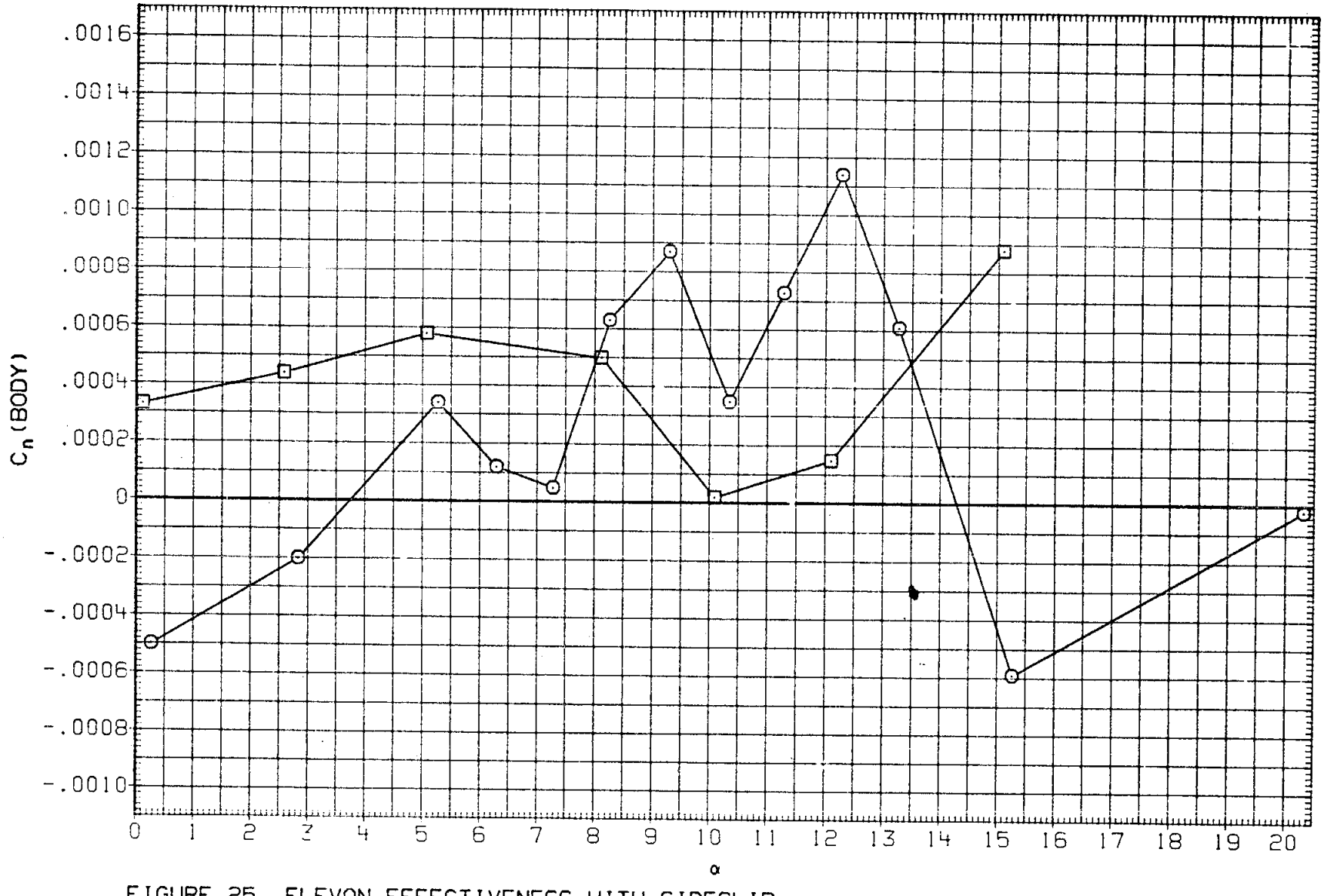

FIGURE 25. ELEVON EFFECTIVENESS WITH SIDESLIP

(B) MACH = .80

DATA SET	SYMBOL	CONFIGURATION
RK0006	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.
RKN021	□	LARC 16FT TWT 326(0A270A) 39-0 ORB.
RK0022	◇	DATA NOT AVAILABLE
OKN014	△	DATA NOT AVAILABLE

BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
.000	4.920	-.010	.000	25.500	-.030	.000
.000	5.000	.000	.000	25.000	.000	.000
2.000	4.920	-.010	.000	25.500	-.030	.000
2.000	5.000	.000	.000	25.000	.000	.000

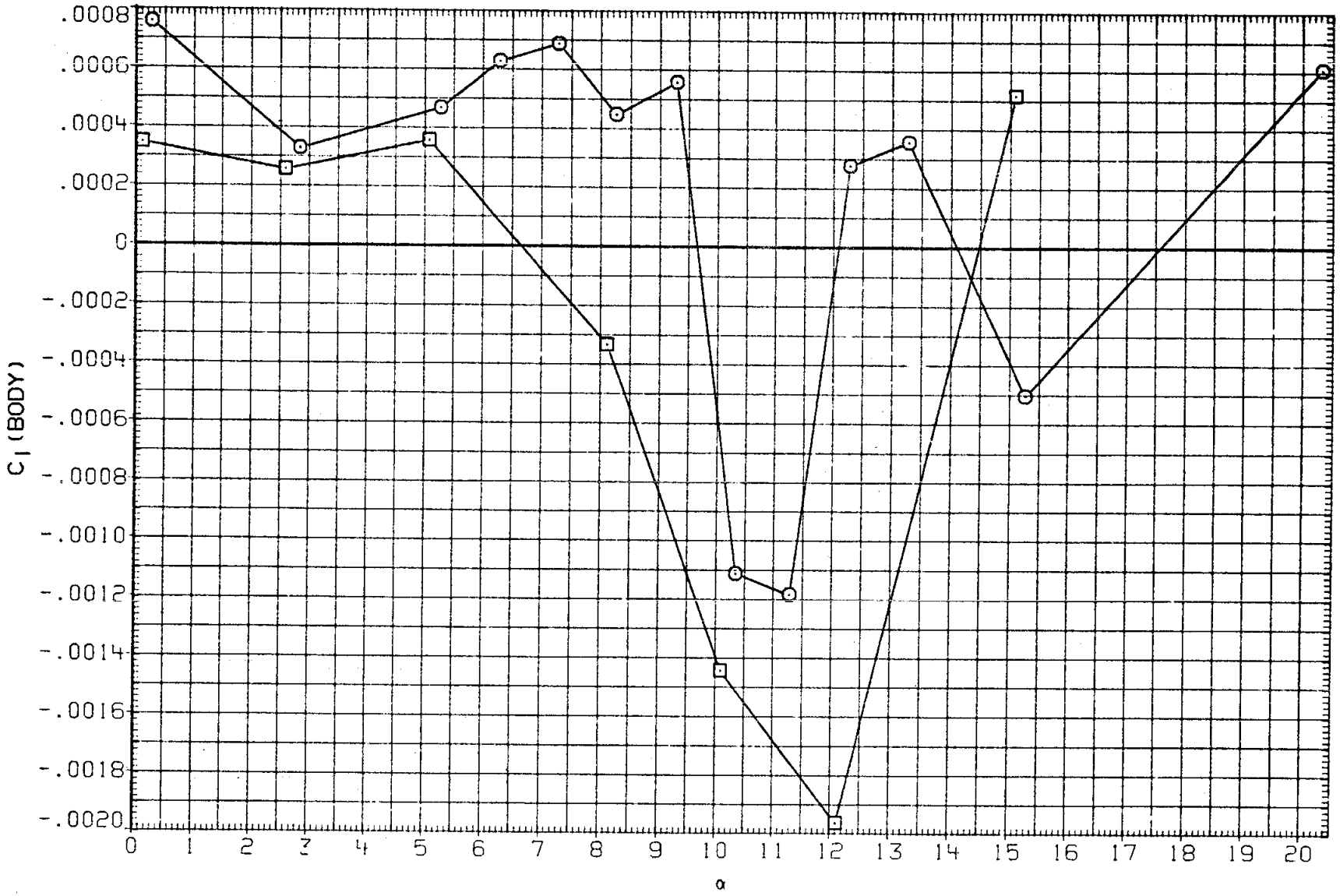

FIGURE 25. ELEVON EFFECTIVENESS WITH SIDESLIP

(B) MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0006	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
RKN021	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	5.000	.000	.000	25.000	.000	.000
RK0022	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	2.000	4.920	-.010	.000	25.500	-.030	.000
OKN014	△	LARC 16FT TWT 326(OA270A) 39-0 ORB.	2.000	5.000	.000	.000	25.000	.000	.000

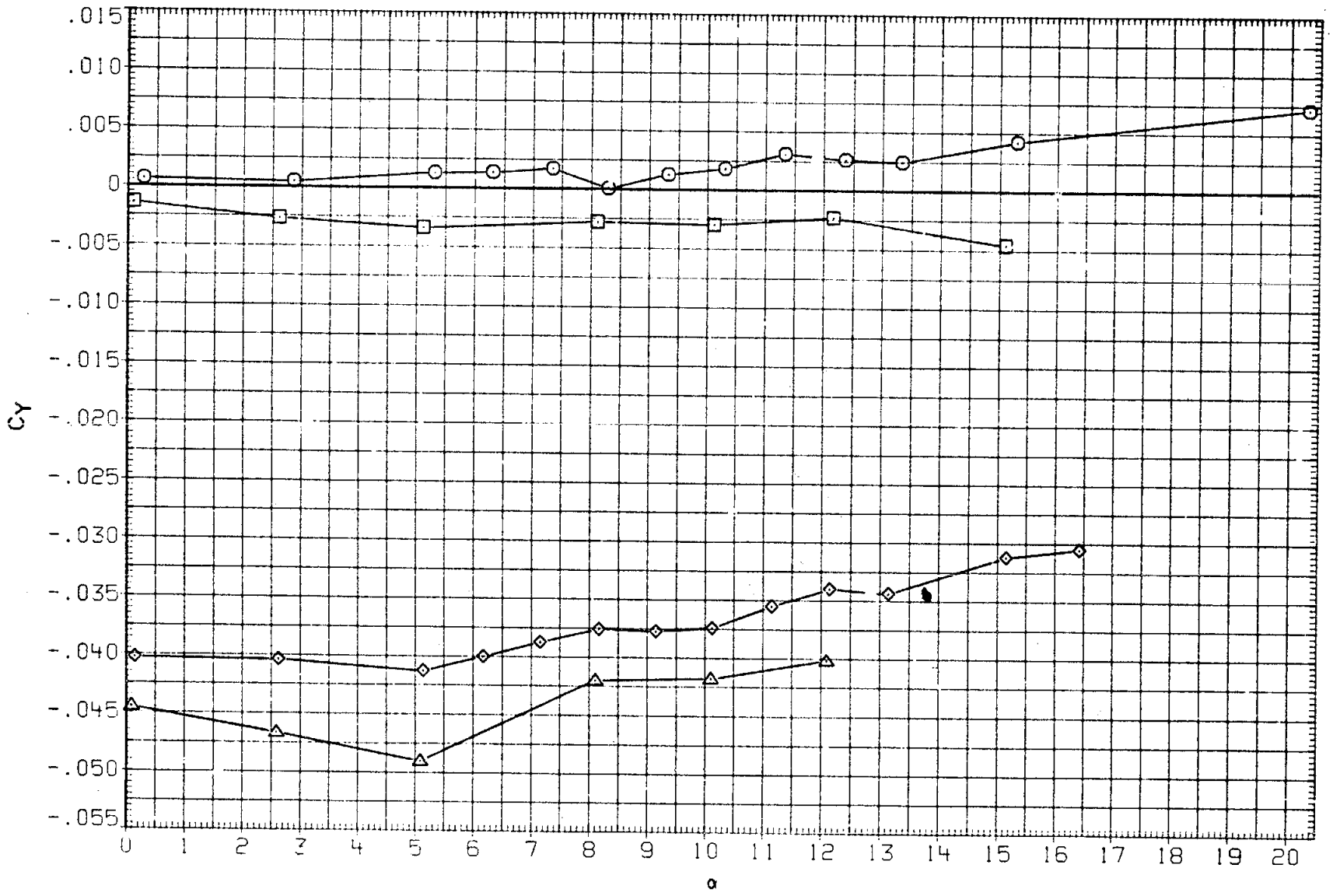

FIGURE 25. ELEVON EFFECTIVENESS WITH SIDESLIP

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0006	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
RKN021	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	5.000	.000	.000	25.000	.000	.000
RK0022	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	2.000	4.920	-.010	.000	25.500	-.030	.000
OKN014	△	LARC 16FT TWT 326(OA270A) 39-0 ORB.	2.000	5.000	.000	.000	25.000	.000	.000

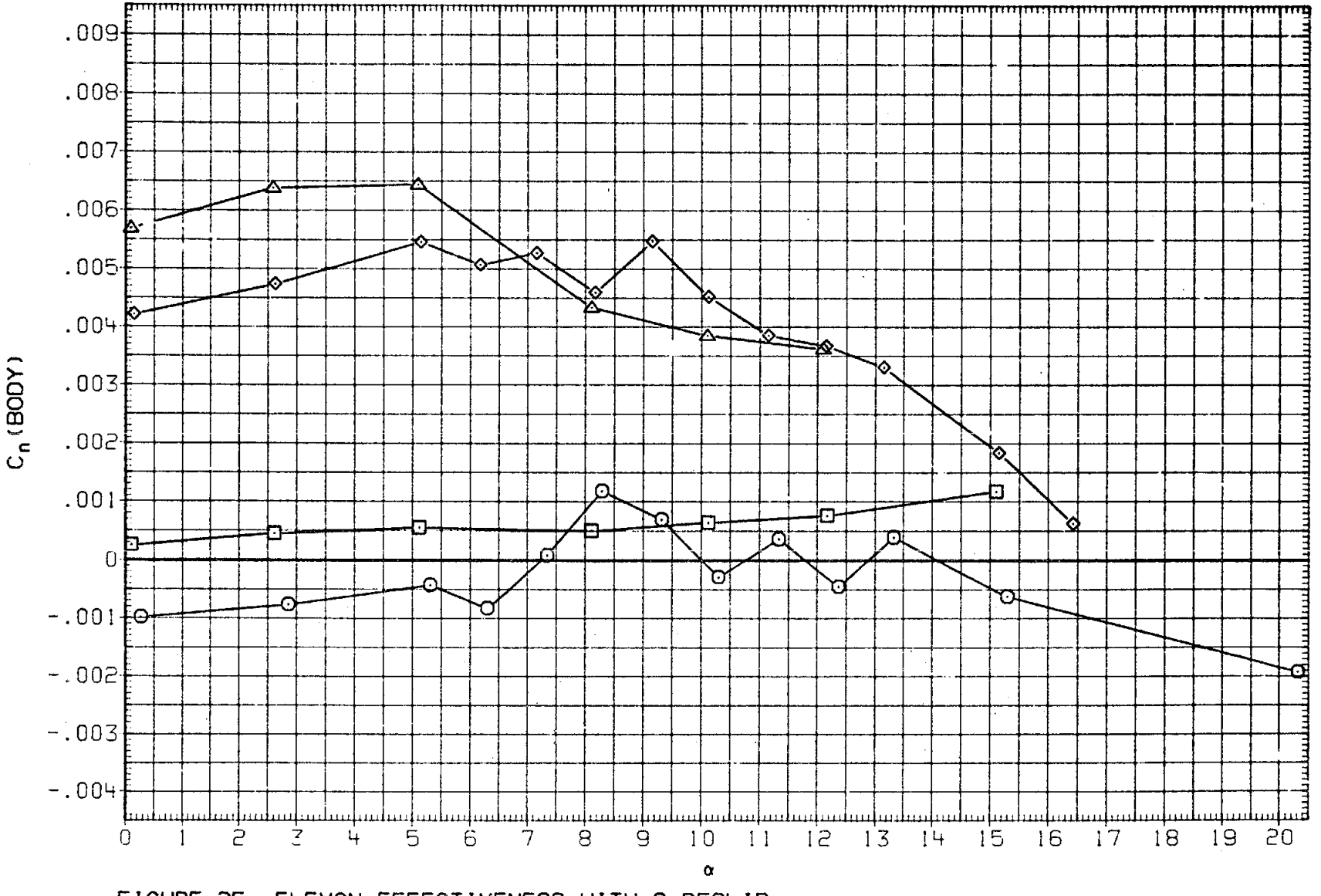

FIGURE 25. ELEVON EFFECTIVENESS WITH S:DESLIP

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0006	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
RKN021	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	5.000	.000	.000	25.000	.000	.000
RK0022	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	2.000	4.920	-.010	.000	25.500	-.030	.000
OKN014	△	LARC 16FT TWT 326(OA270A) 39-0 ORB.	2.000	5.000	.000	.000	25.000	.000	.000

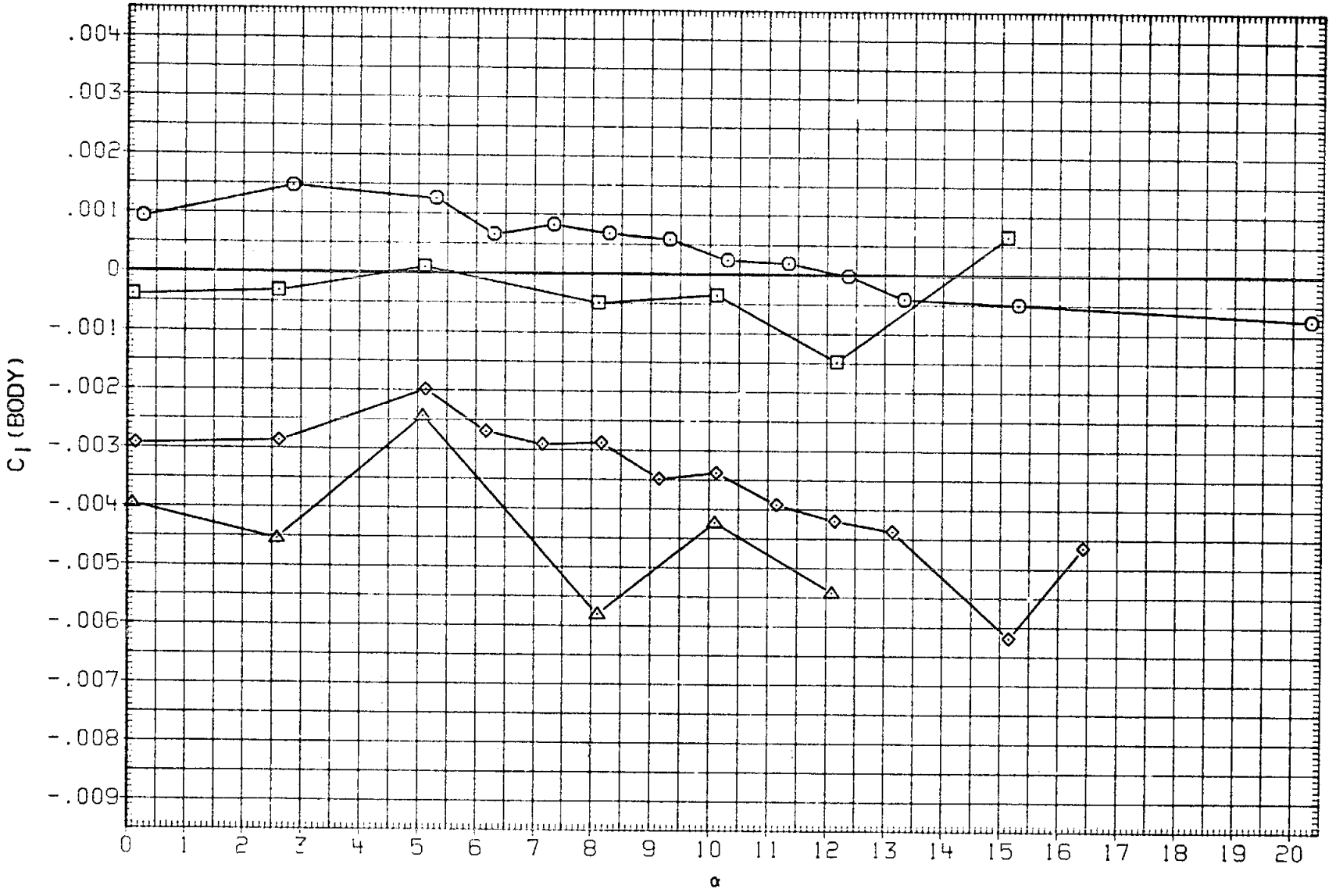

FIGURE 25. ELEVON EFFECTIVENESS WITH SIDESLIP

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0006	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
RKN021	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	5.000	.000	.000	25.000	.000	.000
RK0022	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	2.000	4.920	-.010	.000	25.500	-.030	.000
OKN014	△	LARC 16FT TWT 326(OA270A) 39-0 ORB.	2.000	5.000	.000	.000	25.000	.000	.000

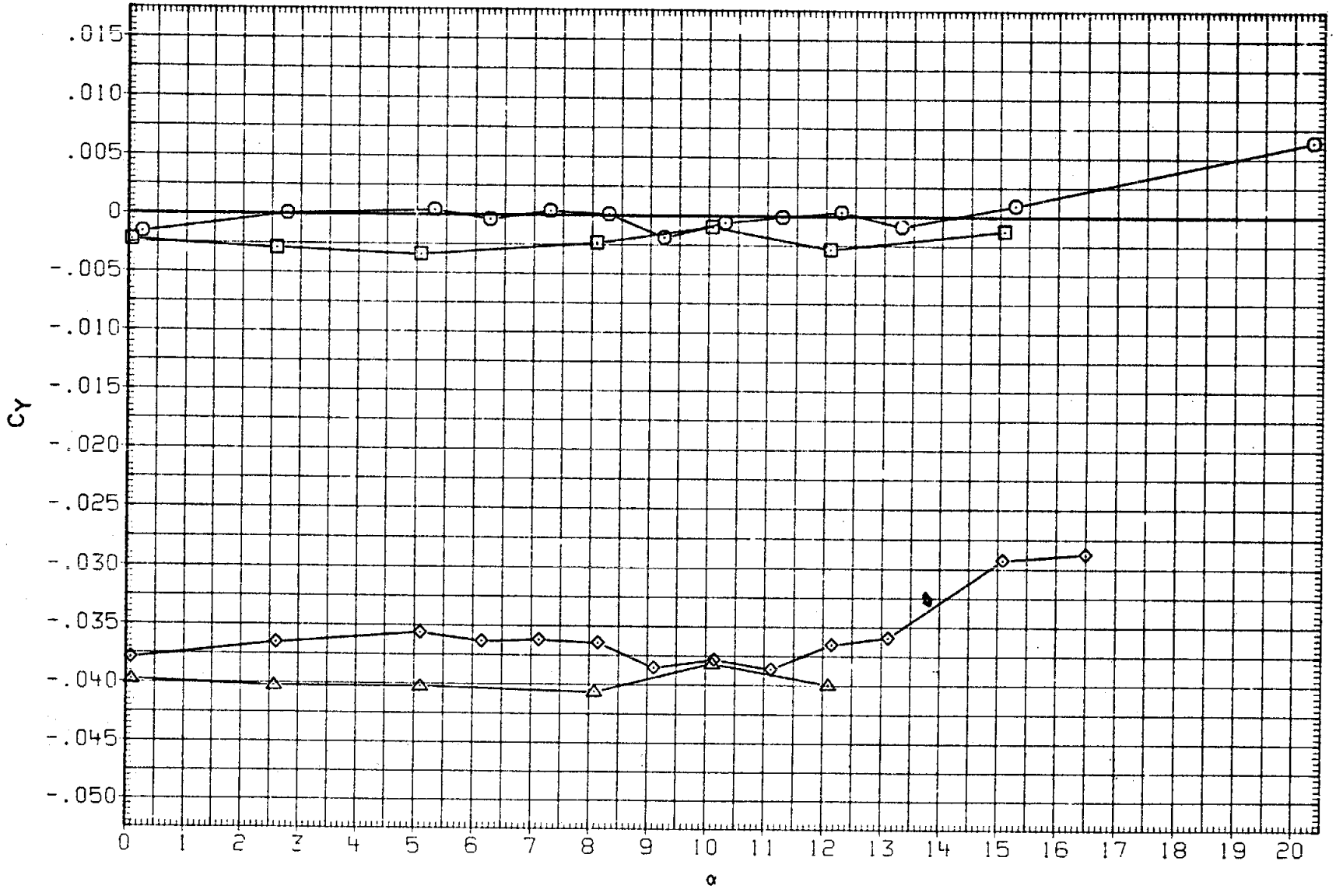

FIGURE 25. ELEVON EFFECTIVENESS WITH SIDESLIP

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0006	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
RKN021	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	5.000	.000	.000	25.000	.000	.000
RK0022	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	2.000	4.920	-.010	.000	25.500	-.030	.000
OKN014	△	LARC 16FT TWT 326(OA270A) 39-0 ORB.	2.000	5.000	.000	.000	25.000	.000	.000

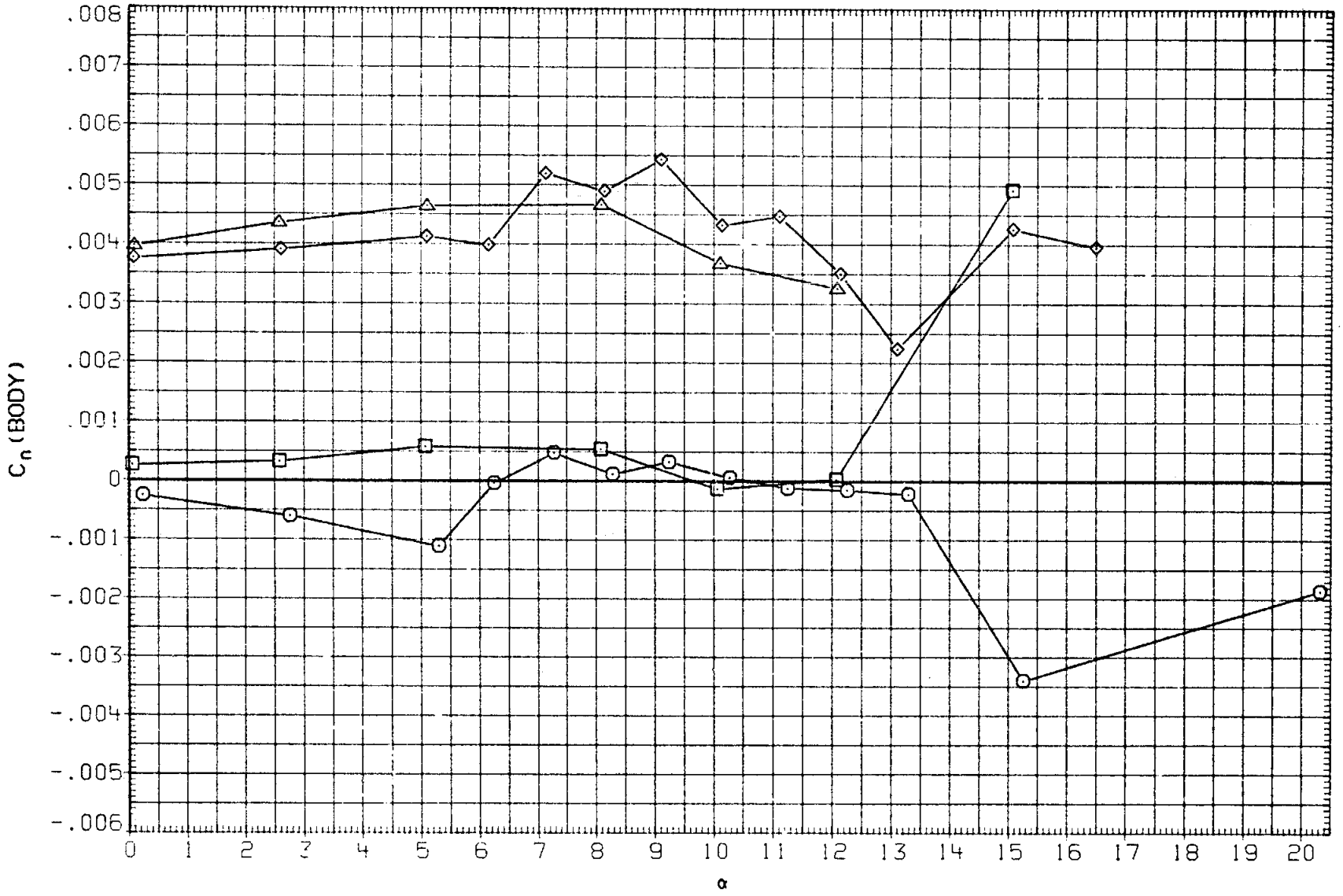

FIGURE 25. ELEVON EFFECTIVENESS WITH SIDESLIP

(D) MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0006	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
RKN021	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	5.000	.000	.000	25.000	.000	.000
RK0022	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	2.000	4.920	-.010	.000	25.500	-.030	.000
OKN014	△	LARC 16FT TWT 326(OA270A) 39-0 ORB.	2.000	5.000	.000	.000	25.000	.000	.000

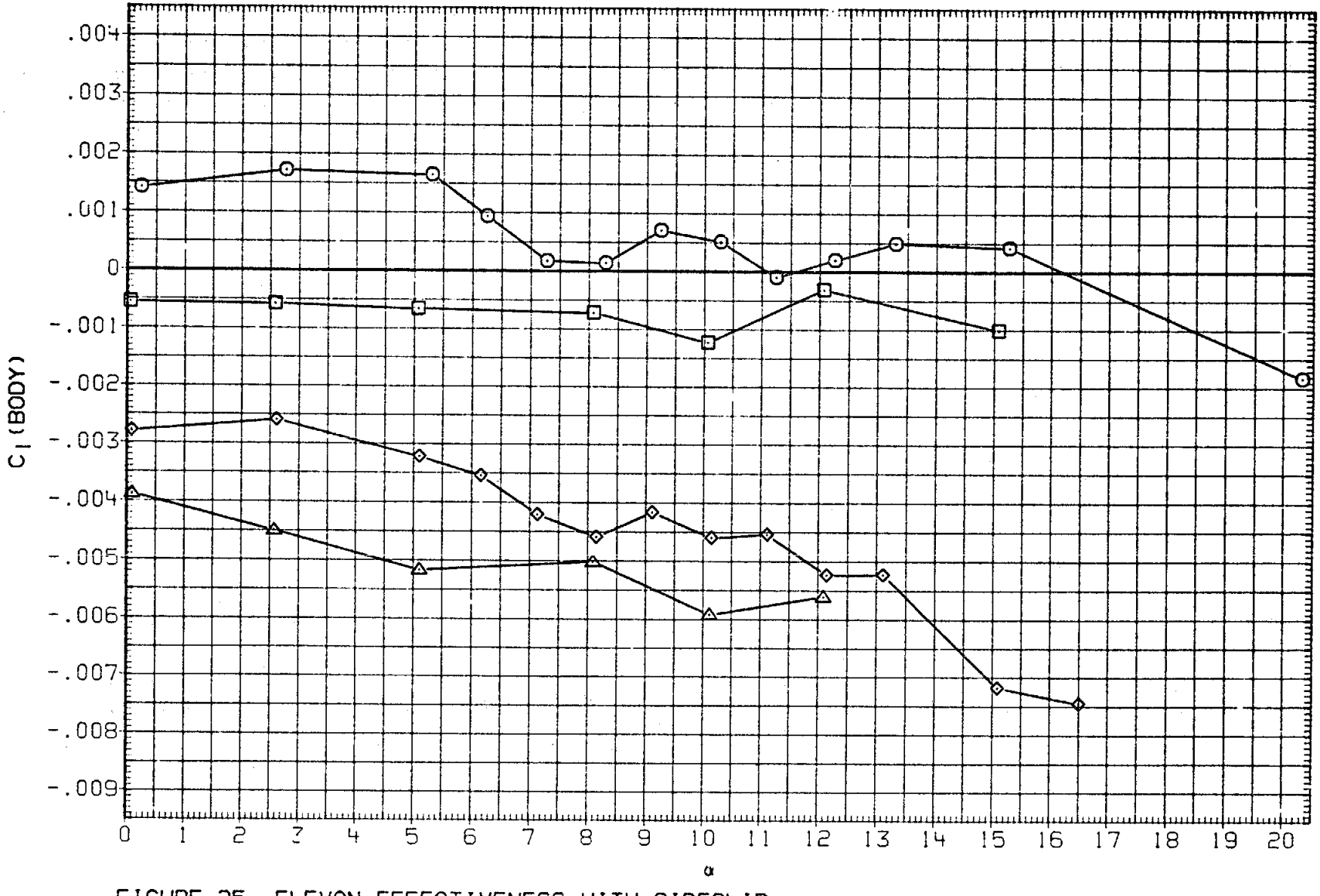

FIGURE 25. ELEVON EFFECTIVENESS WITH SIDESLIP

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0006	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
RKN021	□	DATA NOT AVAILABLE	.000	5.000	.000	.000	25.000	.000	.000
RK0022	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	2.000	4.920	-.010	.000	25.500	-.030	.000
OKN014	△	DATA NOT AVAILABLE	2.000	5.000	.000	.000	25.000	.000	.000

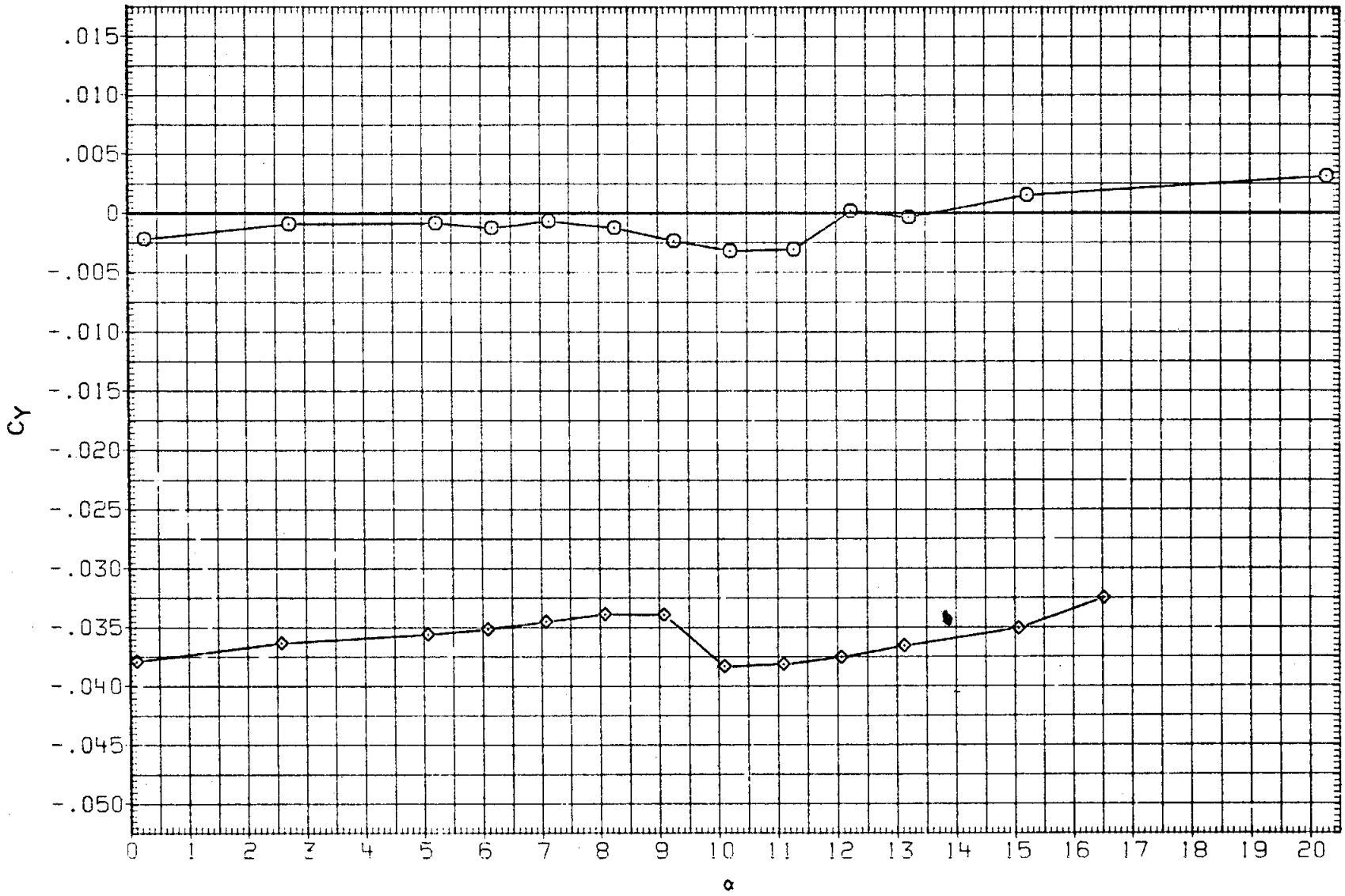

FIGURE 25. ELEVON EFFECTIVENESS WITH SIDESLIP

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION
RK0006	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.
RKN021	□	DATA NOT AVAILABLE
RK0022	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.
OKN014	△	DATA NOT AVAILABLE

BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
.000	4.920	-.010	.000	25.500	-.030	.000
.000	5.000	.000	.000	25.000	.000	.000
2.000	4.920	-.010	.000	25.500	-.030	.000
2.000	5.000	.000	.000	25.000	.000	.000

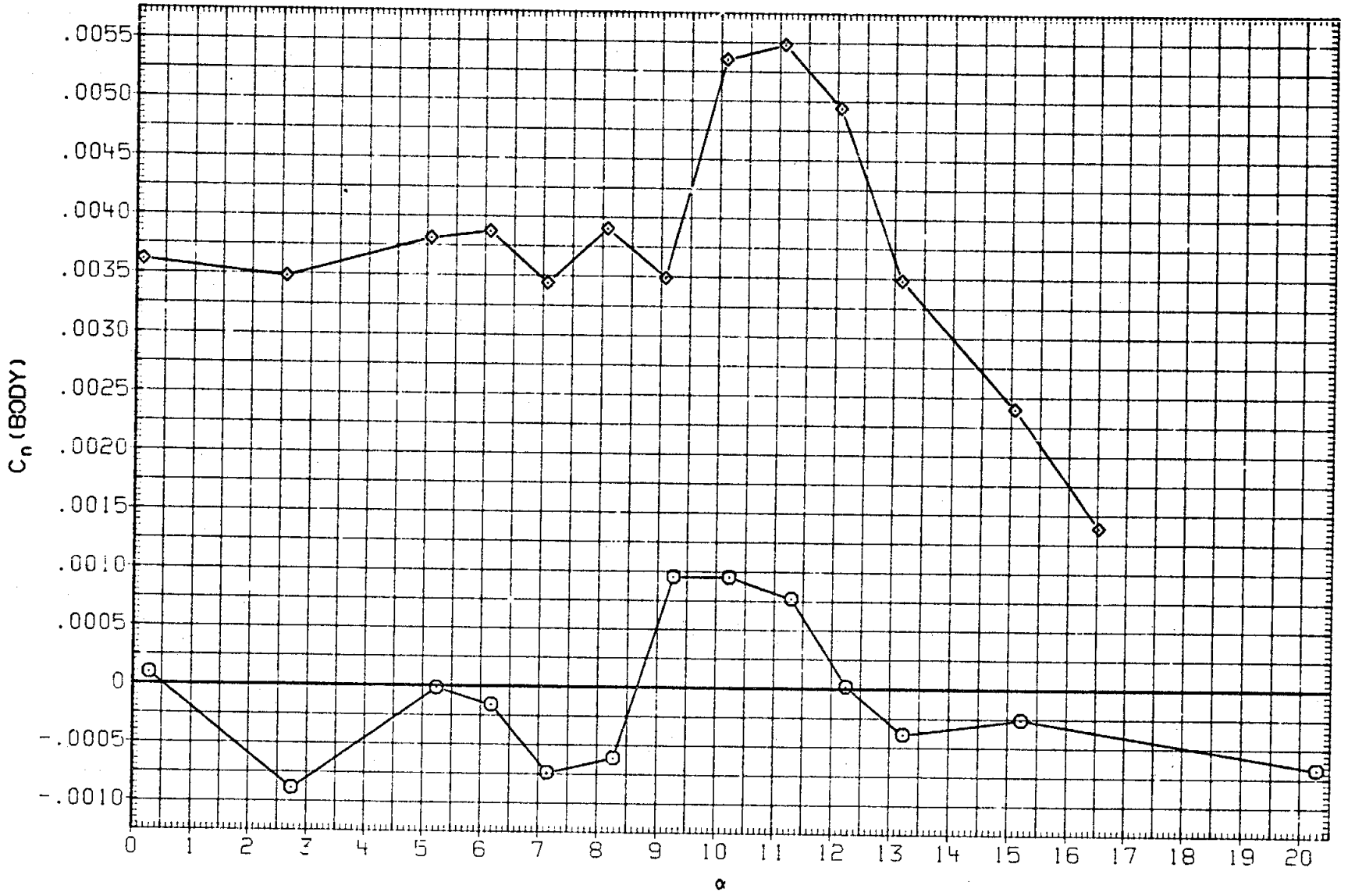

FIGURE 25. ELEVON EFFECTIVENESS WITH SIDESLIP

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0006	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
RKN021	□	DATA NOT AVAILABLE	.000	5.000	.000	.000	25.000	.000	.000
RK0022	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	2.000	4.920	-.010	.000	25.500	-.030	.000
OKN014	△	DATA NOT AVAILABLE	2.000	5.000	.000	.000	25.000	.000	.000

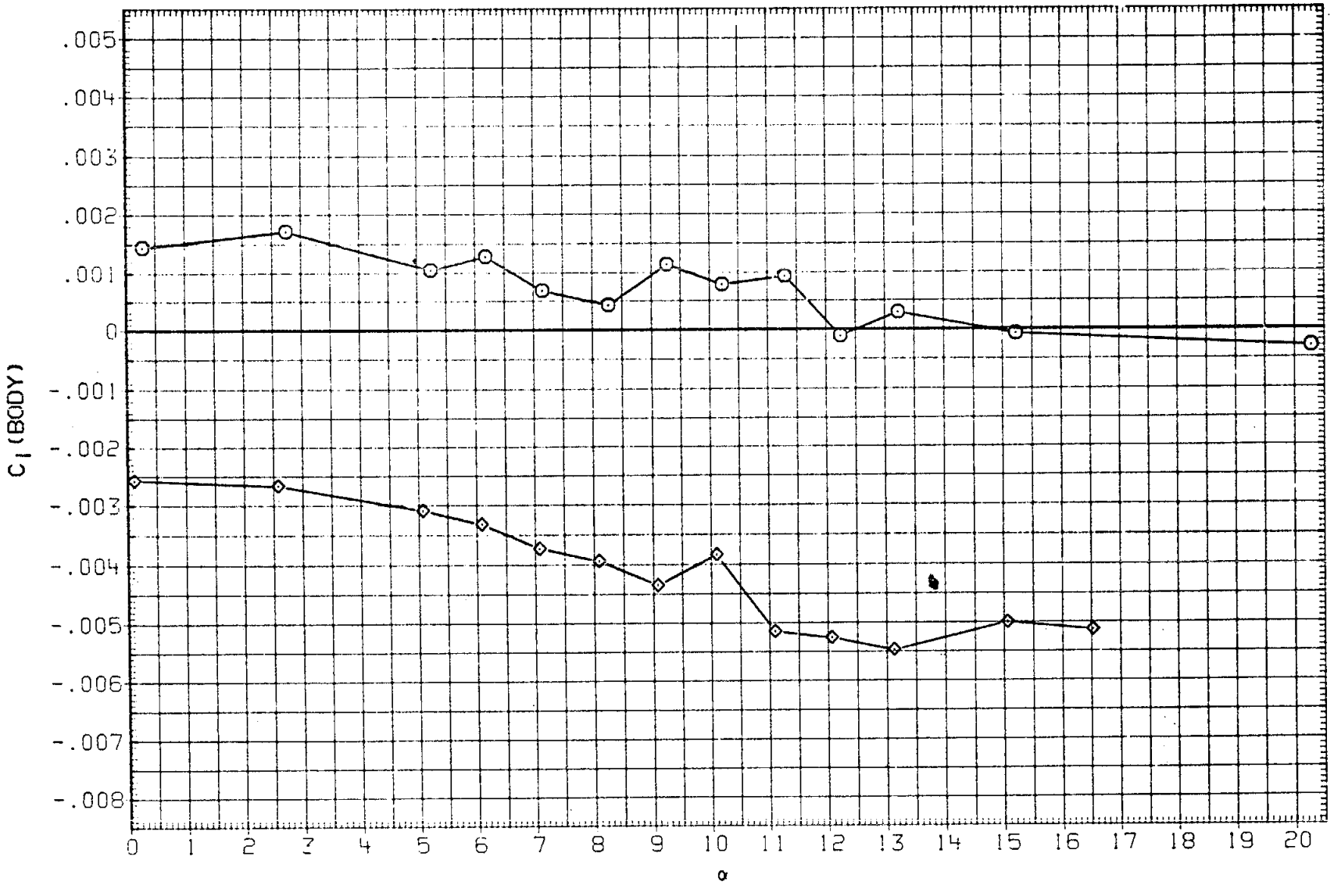

FIGURE 25. ELEVON EFFECTIVENESS WITH SIDESLIP

(F)MACH = .98

DATA SET	SYMBOL	CONFIGURATION
RK0006	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.
RKN021	□	DATA NOT AVAILABLE
RK0022	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.
OKN014	△	DATA NOT AVAILABLE

BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
.000	4.920	-.010	.000	25.500	-.030	.000
.000	5.000	.000	.000	25.000	.000	.000
2.000	4.920	-.010	.000	25.500	-.030	.000
2.000	5.000	.000	.000	25.000	.000	.000

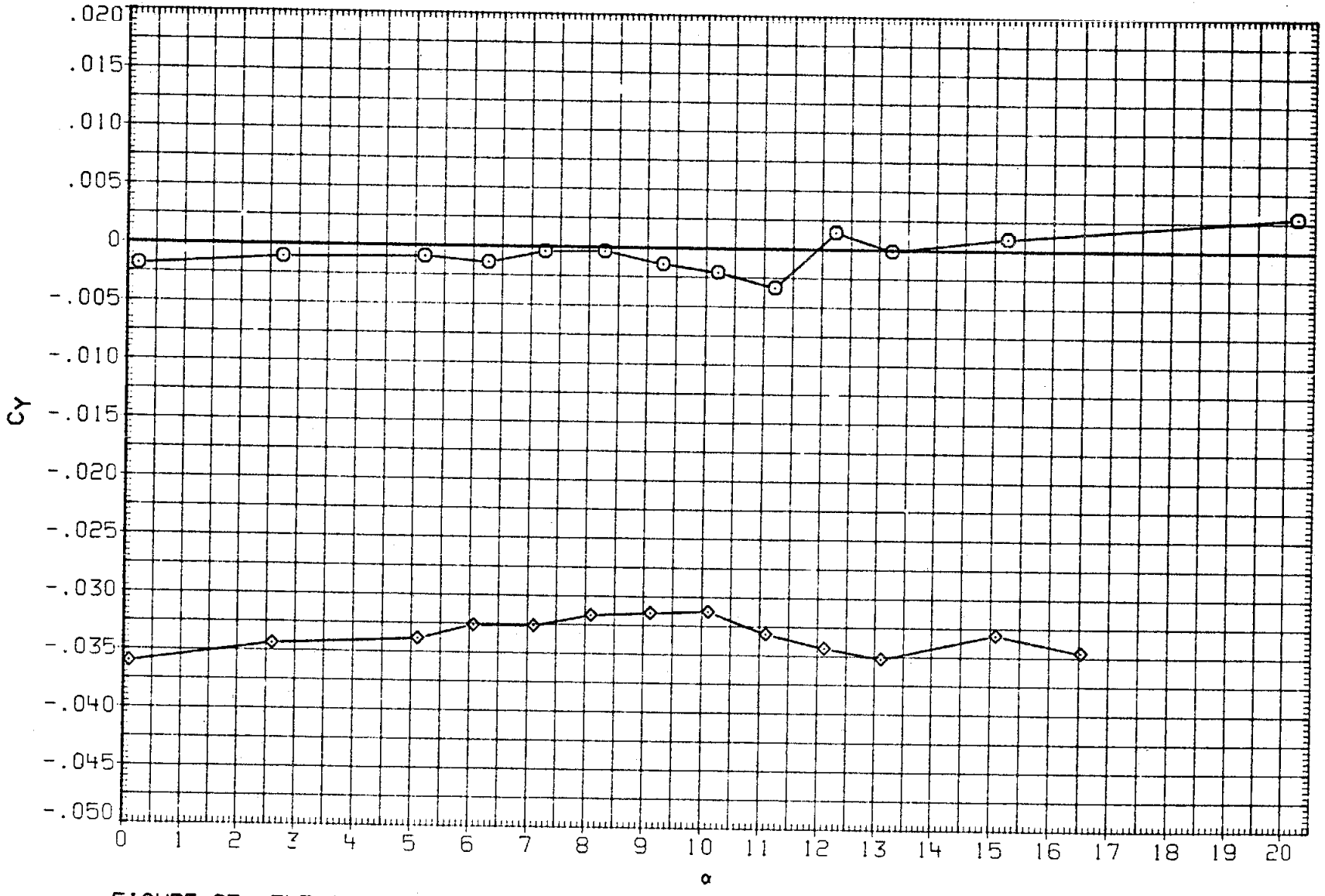

FIGURE 25. ELEVON EFFECTIVENESS WITH SIDESLIP

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0006	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
RKN021	□	DATA NOT AVAILABLE	.000	5.000	.000	.000	25.000	.000	.000
RK0022	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	2.000	4.920	-.010	.000	25.500	-.030	.000
OKN014	△	DATA NOT AVAILABLE	2.000	5.000	.000	.000	25.000	.000	.000

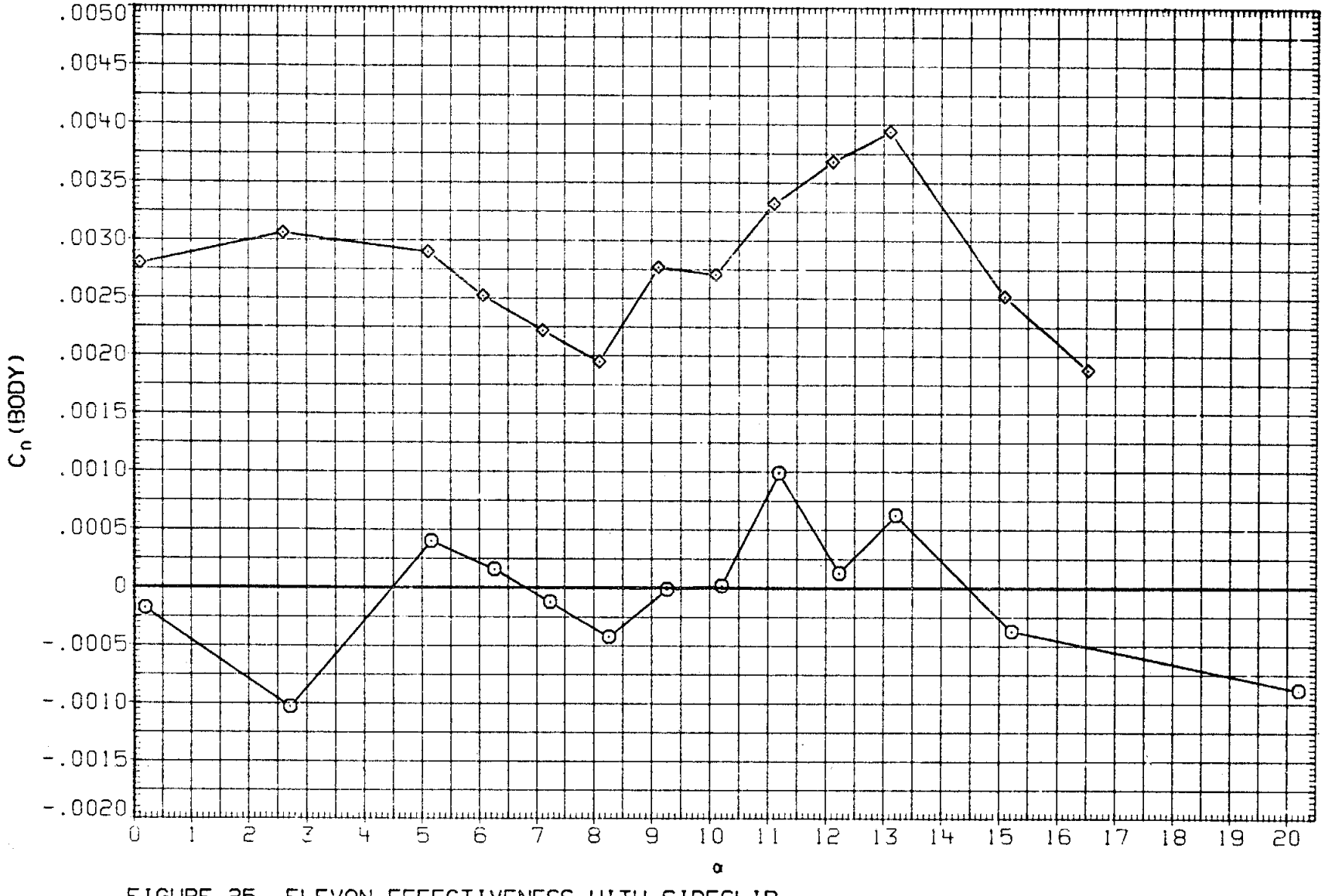

FIGURE 25. ELEVON EFFECTIVENESS WITH SIDESLIP

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0006	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
RKN021	□	DATA NOT AVAILABLE	.000	5.000	.000	.000	25.000	.000	.000
RK0022	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	2.000	4.920	-.010	.000	25.500	-.030	.000
OKN014	△	DATA NOT AVAILABLE	2.000	5.000	.000	.000	25.000	.000	.000

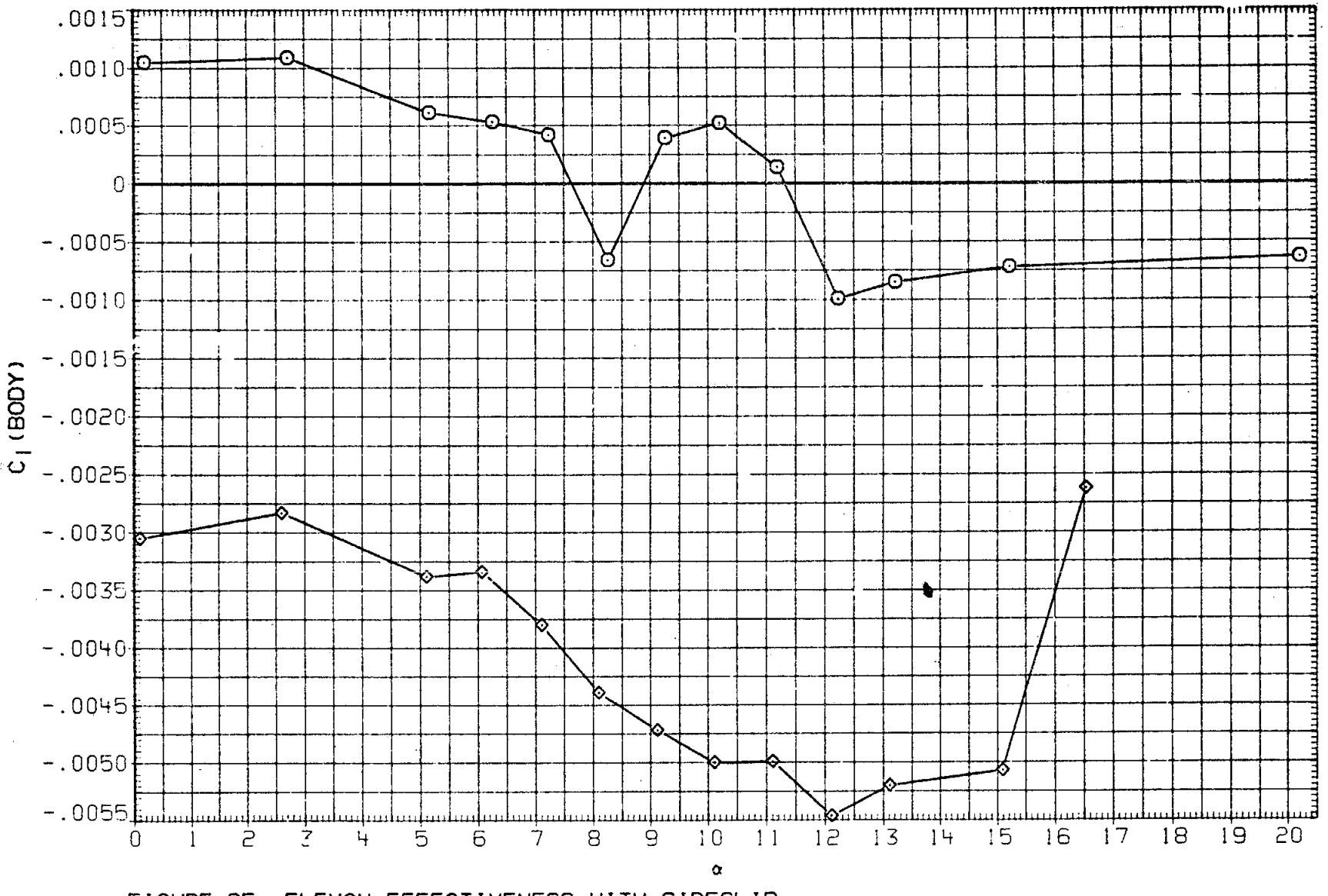

FIGURE 25. ELEVON EFFECTIVENESS WITH SIDESLIP

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION
RK0006	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.
RKN021	□	DATA NOT AVAILABLE
RK0022	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.
OKN014	△	DATA NOT AVAILABLE

BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
.000	4.920	-.010	.000	25.500	-.030	.000
.000	5.000	.000	.000	25.000	.000	.000
2.000	4.920	-.010	.000	25.500	-.030	.000
2.000	5.000	.000	.000	25.000	.000	.000

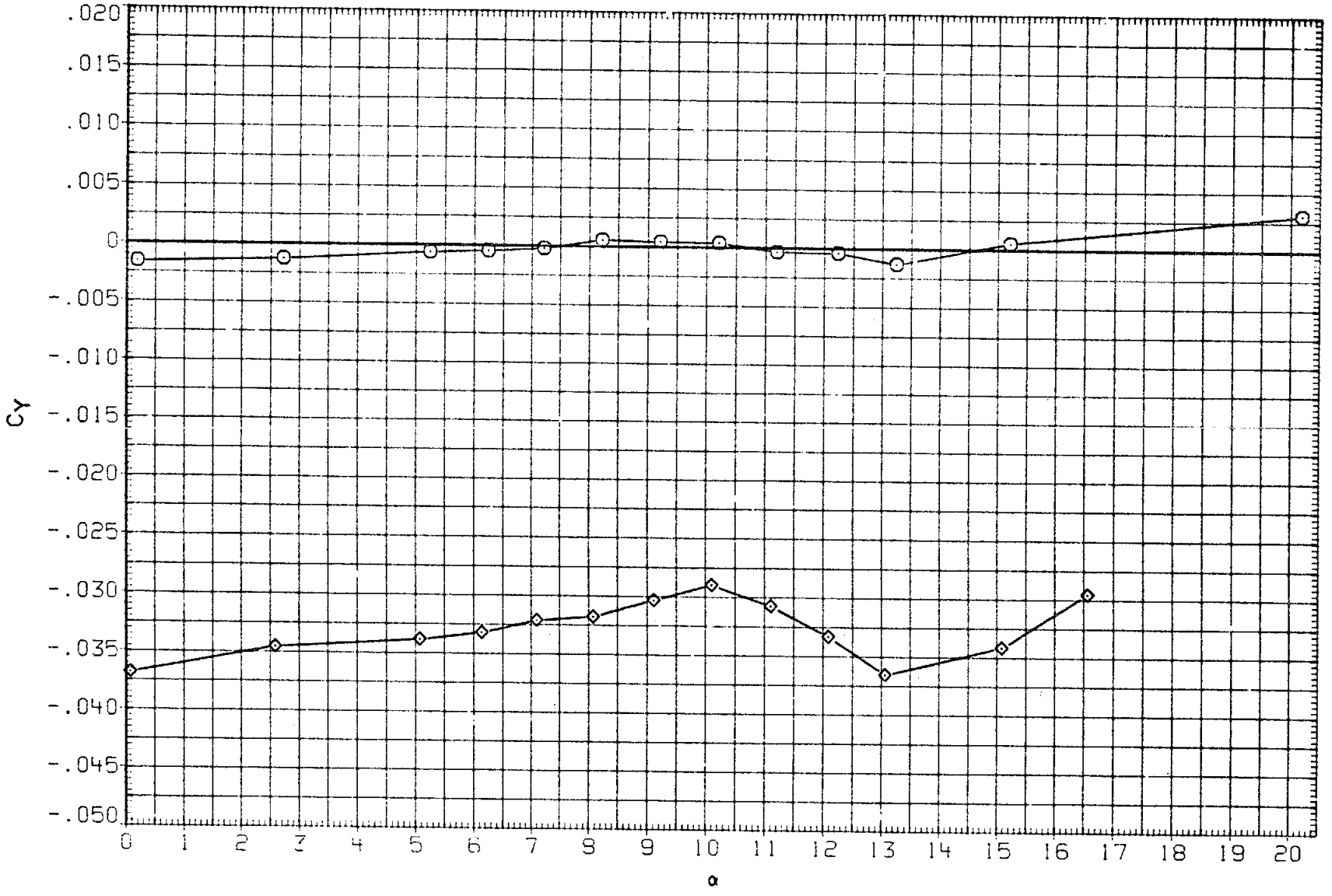

FIGURE 25. ELEVON EFFECTIVENESS WITH SIDESLIP

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION
RK0006	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.
RKN021	□	DATA NOT AVAILABLE
RK0022	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.
OKN014	△	DATA NOT AVAILABLE

BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
.000	4.920	-.010	.000	25.500	-.030	.000
.000	5.000	.000	.000	25.000	.000	.000
2.000	4.920	-.010	.000	25.500	-.030	.000
2.000	5.000	.000	.000	25.000	.000	.000

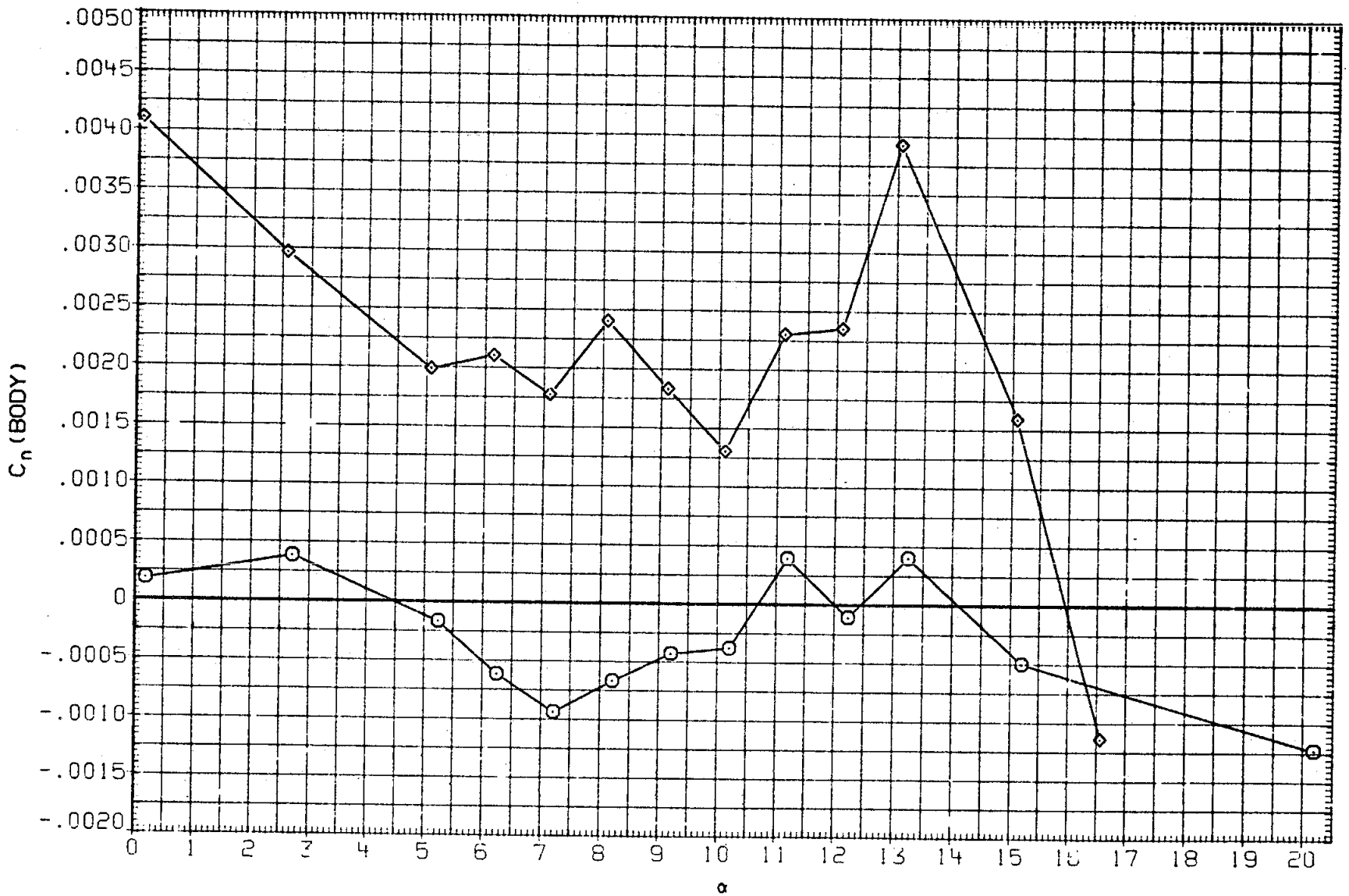

FIGURE 25. ELEVON EFFECTIVENESS WITH SIDESLIP

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0006	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
RKN021	□	DATA NOT AVAILABLE	.000	5.000	.000	.000	25.000	.000	.000
RK0022	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	2.000	4.920	-.010	.000	25.500	-.030	.000
OKN014	△	DATA NOT AVAILABLE	2.000	5.000	.000	.000	25.000	.000	.000

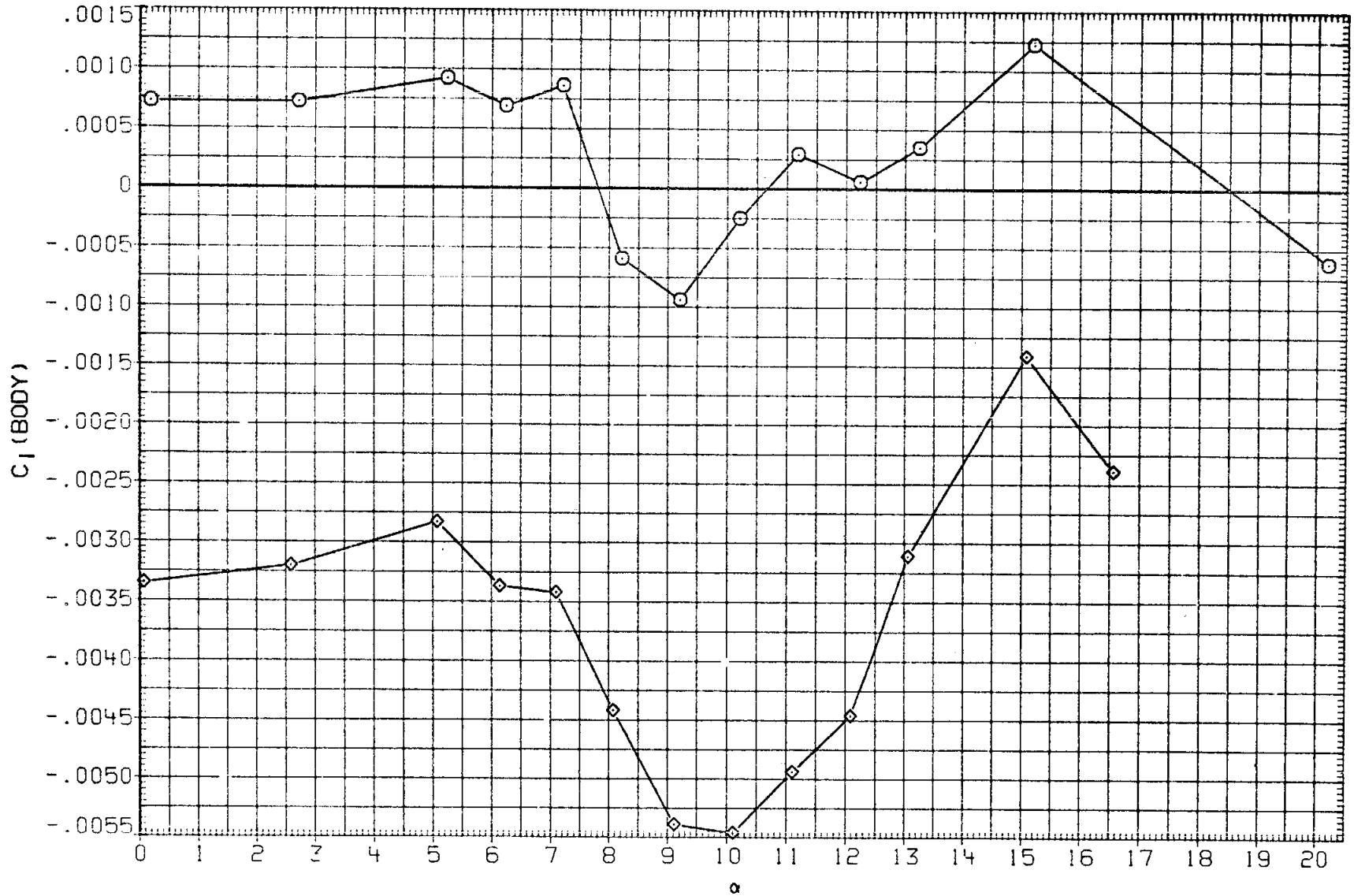

FIGURE 25. ELEVON EFFECTIVENESS WITH SIDESLIP

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0006	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
RKN021	□	DATA NOT AVAILABLE	.000	5.000	.000	.000	25.000	.000	.000
RK0022	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	2.000	4.920	-.010	.000	25.500	-.030	.000
OKN014	△	DATA NOT AVAILABLE	2.000	5.000	.000	.000	25.000	.000	.000

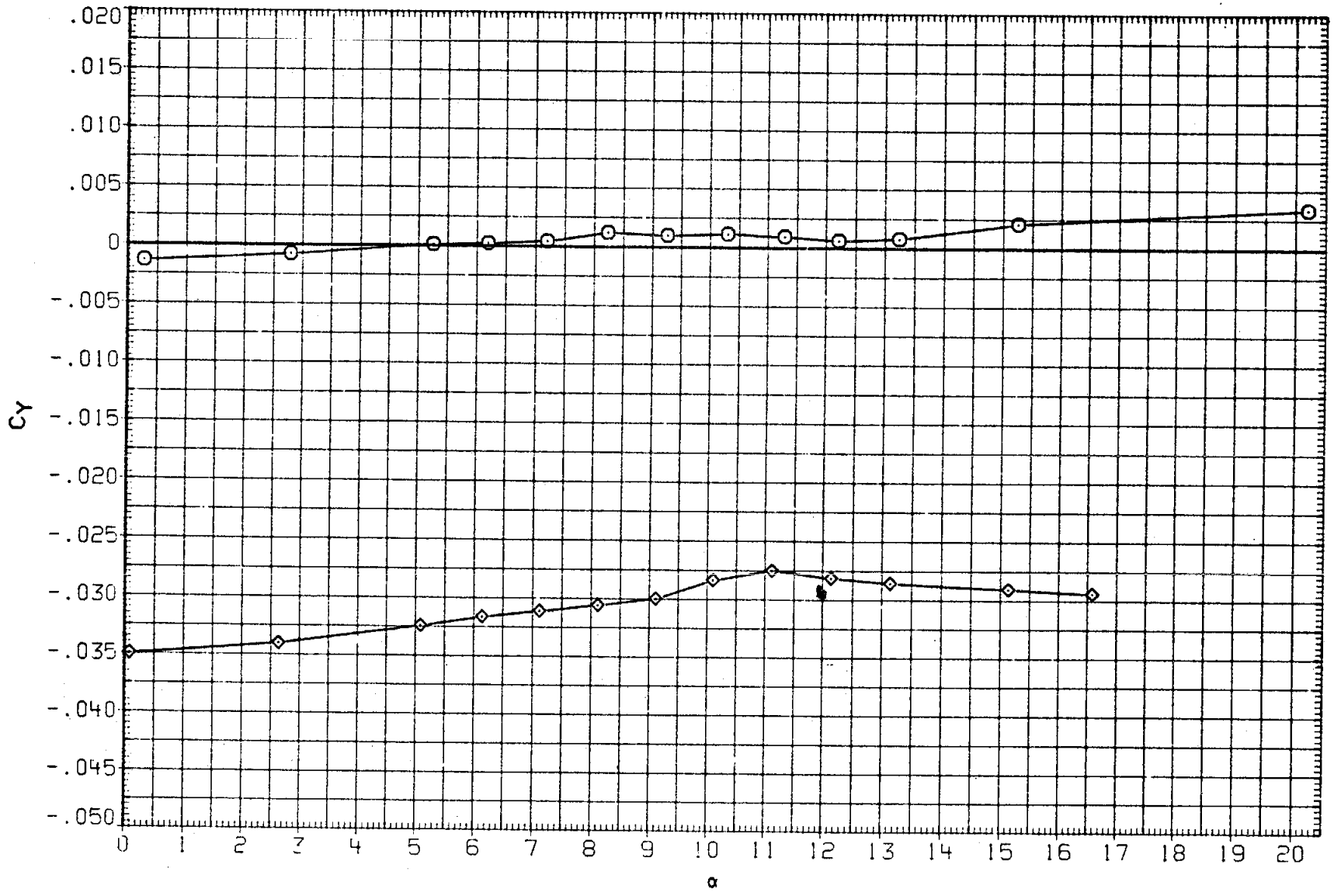

FIGURE 25. ELEVON EFFECTIVENESS WITH SIDESLIP

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0006	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
RKN021	□	DATA NOT AVAILABLE	.000	5.000	.000	.000	25.000	.000	.000
RK0022	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	2.000	4.920	-.010	.000	25.500	-.030	.000
OKN014	△	DATA NOT AVAILABLE	2.000	5.000	.000	.000	25.000	.000	.000

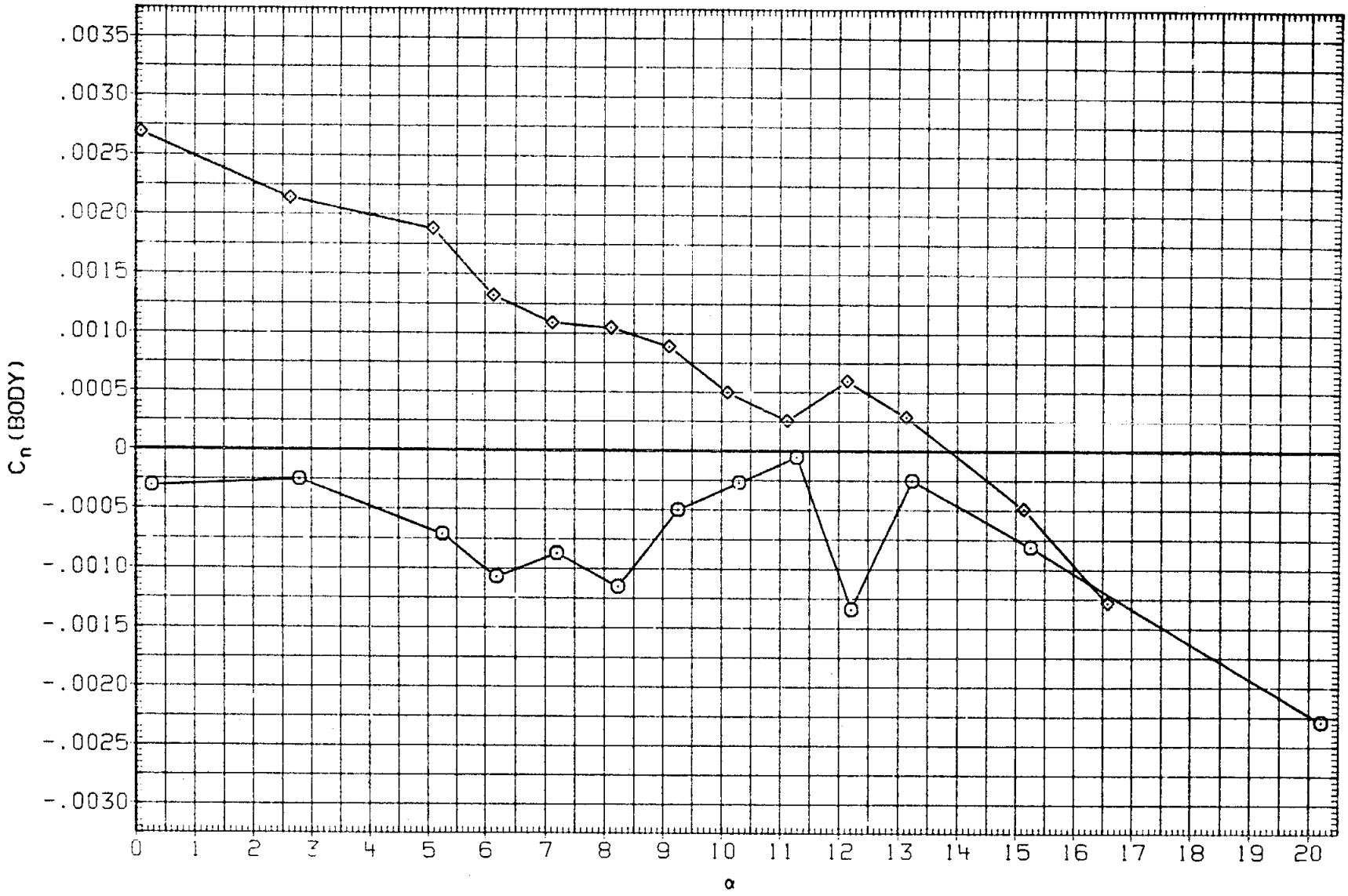

FIGURE 25. ELEVON EFFECTIVENESS WITH SIDESLIP

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0006	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
RKN021	□	DATA NOT AVAILABLE	.000	5.000	.000	.000	25.000	.000	.000
RK0022	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	2.000	4.920	-.010	.000	25.500	-.030	.000
OKN014	△	DATA NOT AVAILABLE	2.000	5.000	.000	.000	25.000	.000	.000

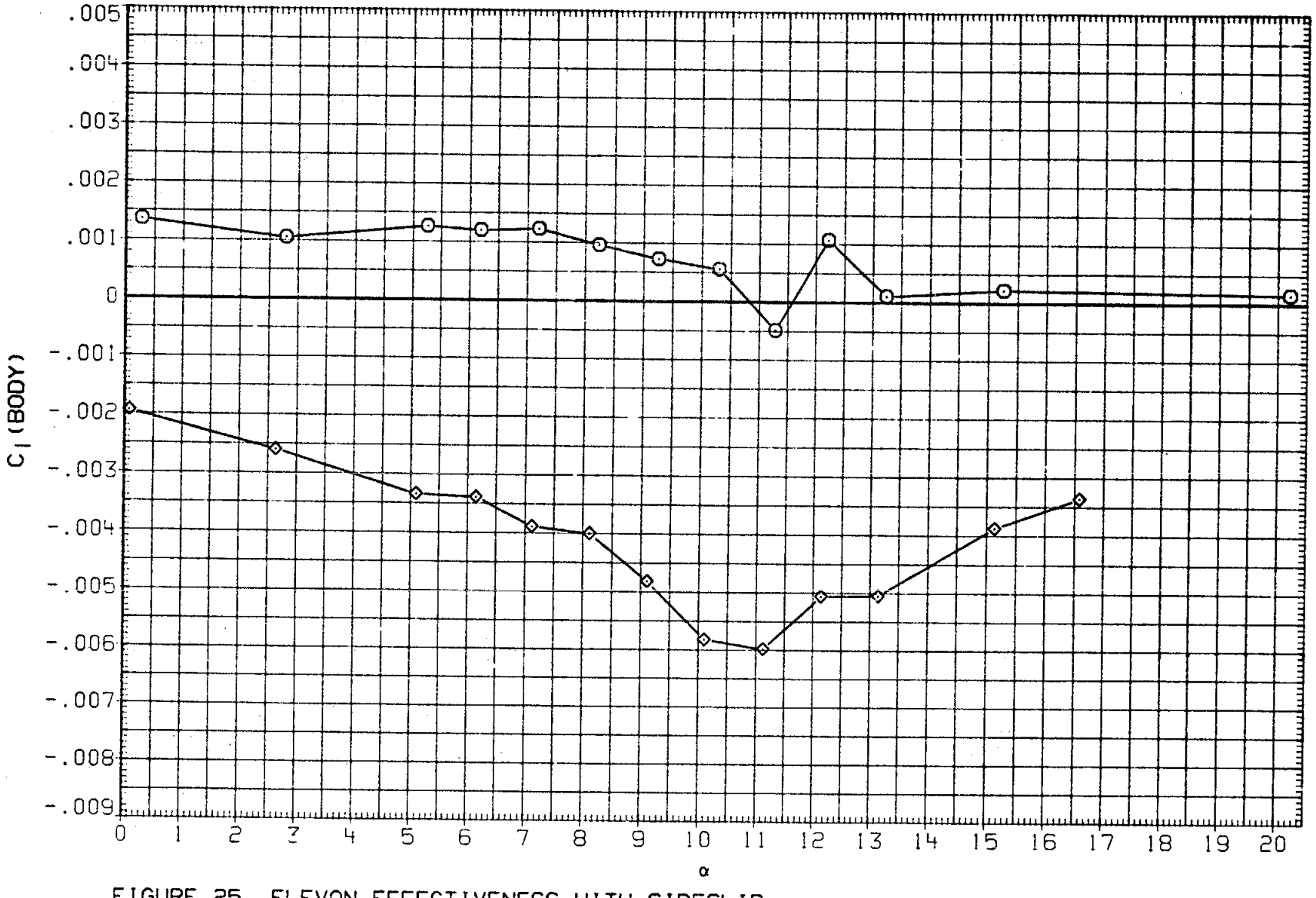

FIGURE 25. ELEVON EFFECTIVENESS WITH SIDESLIP

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION
RK0006	○	DATA NOT AVAILABLE
RKN021	□	LARC 16FT TWT 326(0A270A) 39-0 ORB.
RK0022	◇	DATA NOT AVAILABLE
OKN014	△	DATA NOT AVAILABLE

BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
.000	4.920	-.010	.000	25.500	-.030	.000
.000	5.000	.000	.000	25.000	.000	.000
2.000	4.920	-.010	.000	25.500	-.030	.000
2.000	5.000	.000	.000	25.000	.000	.000

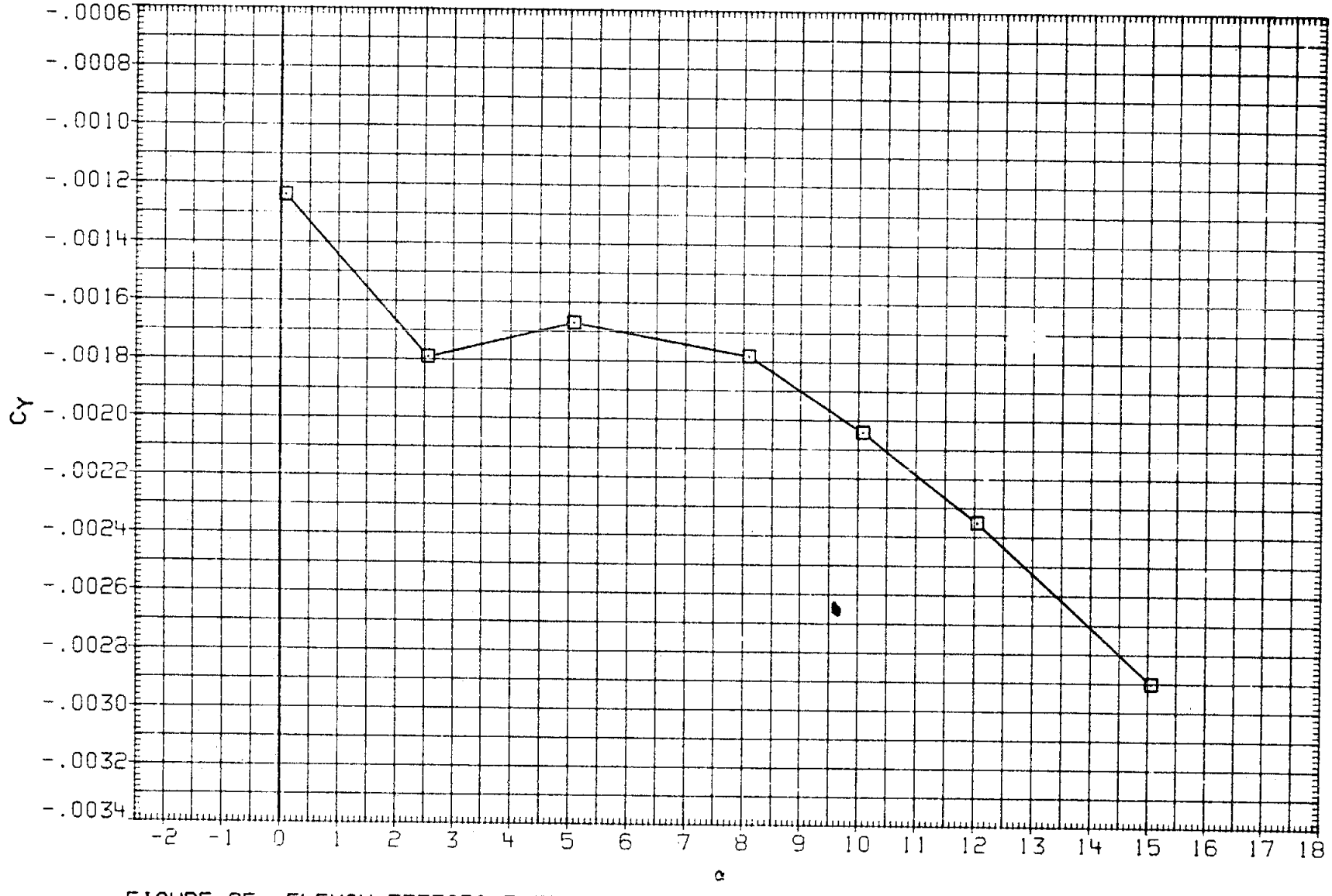

FIGURE 25. ELEVON EFFECTIVENESS WITH SIDESLIP

(I)MACH = 1.27

DATA SET	SYMBOL	CONFIGURATION
RK0006	○	DATA NOT AVAILABLE
RKN021	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.
RK0022	◇	DATA NOT AVAILABLE
OKN014	△	DATA NOT AVAILABLE

BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
.000	4.920	-.010	.000	25.500	-.030	.000
.000	5.000	.000	.000	25.000	.000	.000
2.000	4.920	-.010	.000	25.500	-.030	.000
2.000	5.000	.000	.000	25.000	.000	.000

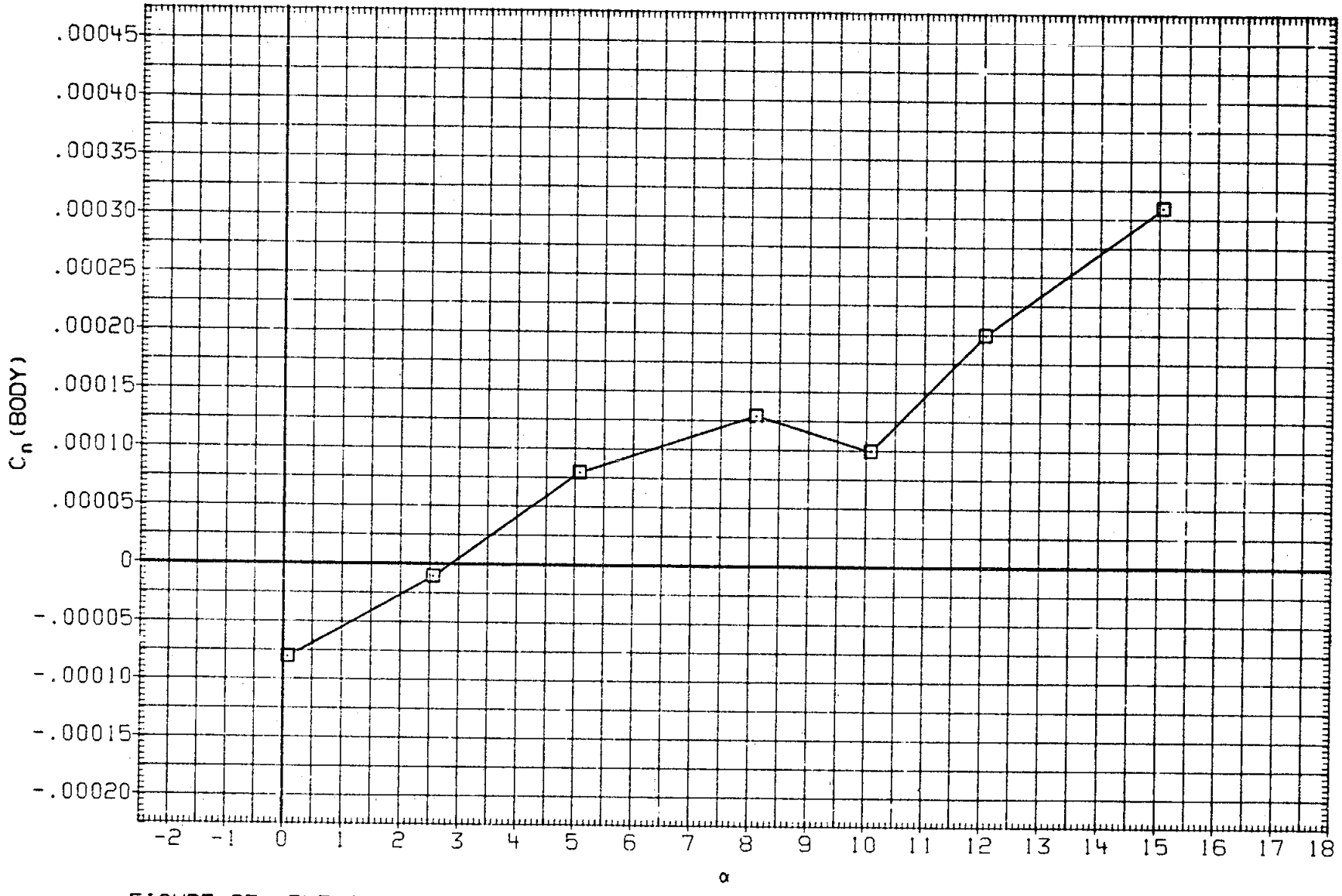

FIGURE 25. ELEVON EFFECTIVENESS WITH SIDESLIP

(I)MACH = 1.27

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0006	○	DATA NOT AVAILABLE	.000	4.920	-.010	.000	25.500	-.030	.000
RKN021	□	LARC 16FT TWT 3261OA270A) 39-0 ORB.	.000	5.000	.000	.000	25.000	.000	.000
RK0022	◇	DATA NOT AVAILABLE	2.000	4.920	-.010	.000	25.500	-.030	.000
OKN014	△	DATA NOT AVAILABLE	2.000	5.000	.000	.000	25.000	.000	.000

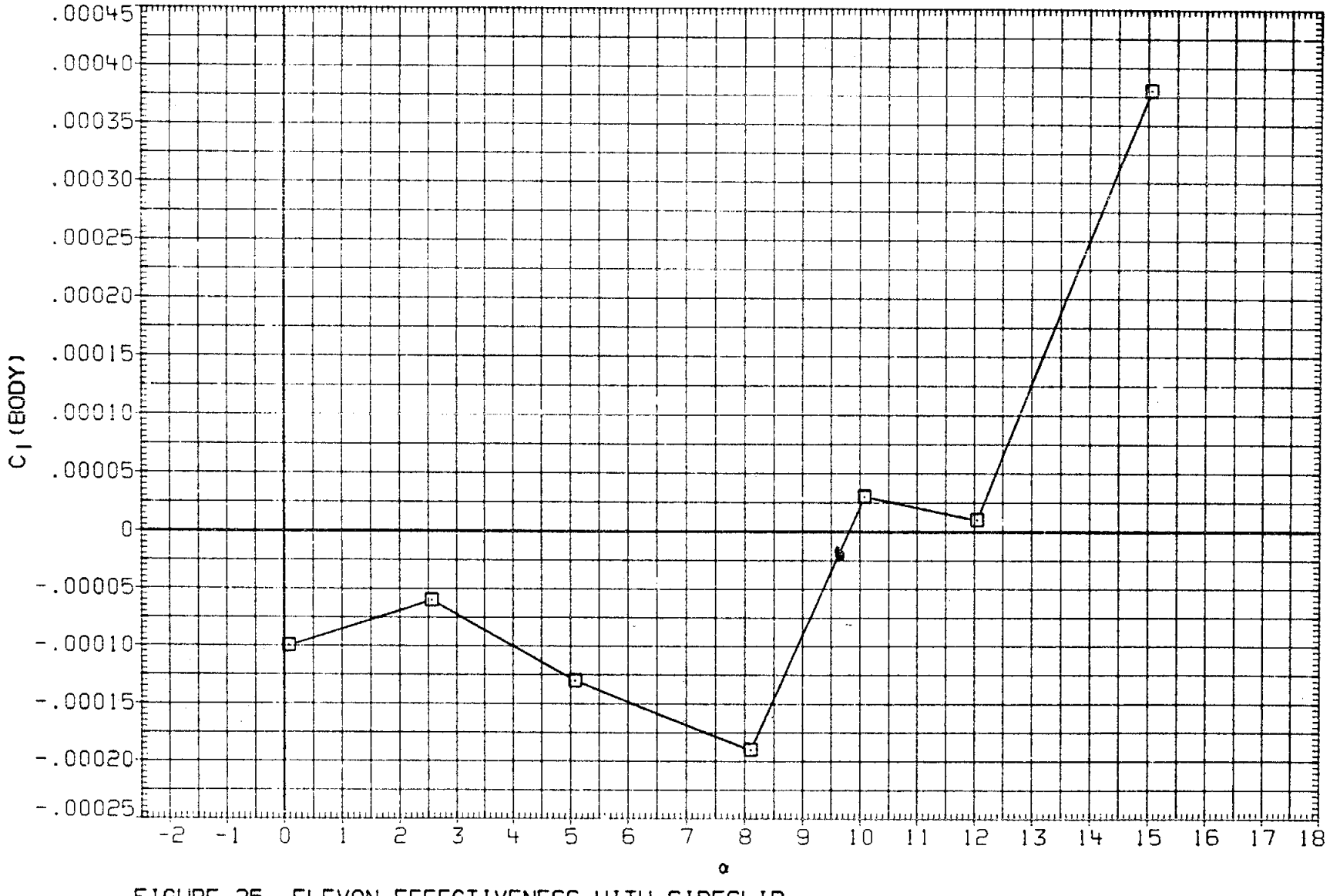

FIGURE 25. ELEVON EFFECTIVENESS WITH SIDESLIP

(I)MACH = 1.27

DATA SET	SYMBOL	CONFIGURATION
RK0006	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.
RKN021	□	DATA NOT AVAILABLE
RK0922	◇	DATA NOT AVAILABLE
OKN014	△	DATA NOT AVAILABLE

BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
.000	4.920	-.010	.000	25.500	-.030	.000
.000	5.000	.000	.000	25.000	.000	.000
2.000	4.920	-.010	.000	25.500	-.030	.000
2.000	5.000	.000	.000	25.000	.000	.000

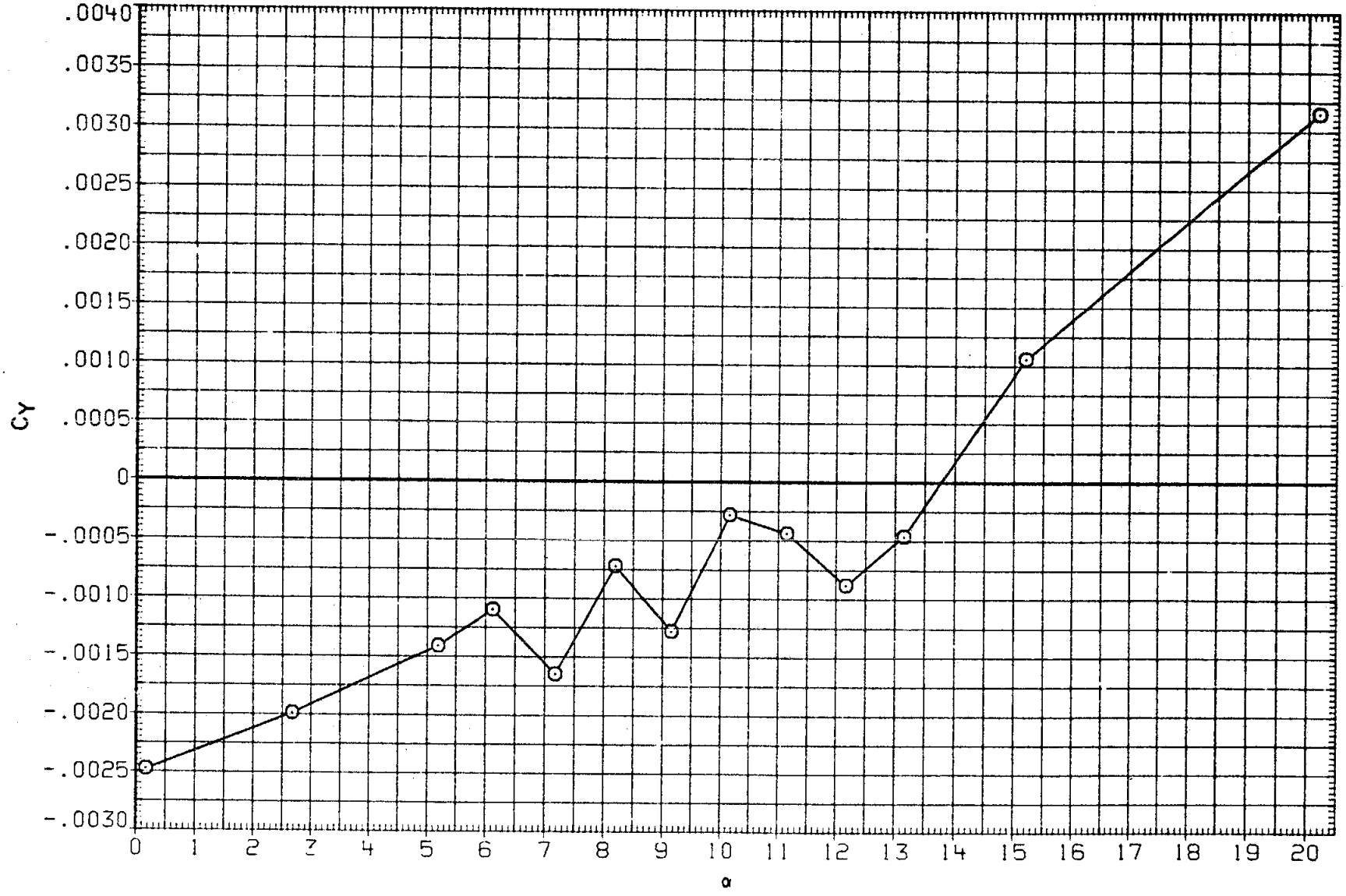

FIGURE 25. ELEVON EFFECTIVENESS WITH SIDESLIP

(J)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0006	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	4.920	-.010	.000	25.500	-.030	.000
RKN021	□	DATA NOT AVAILABLE	.000	5.000	.000	.000	25.000	.000	.000
RK0022	◇	DATA NOT AVAILABLE	2.000	4.920	-.010	.000	25.500	-.030	.000
OKN014	△	DATA NOT AVAILABLE	2.000	5.000	.000	.000	25.000	.000	.000

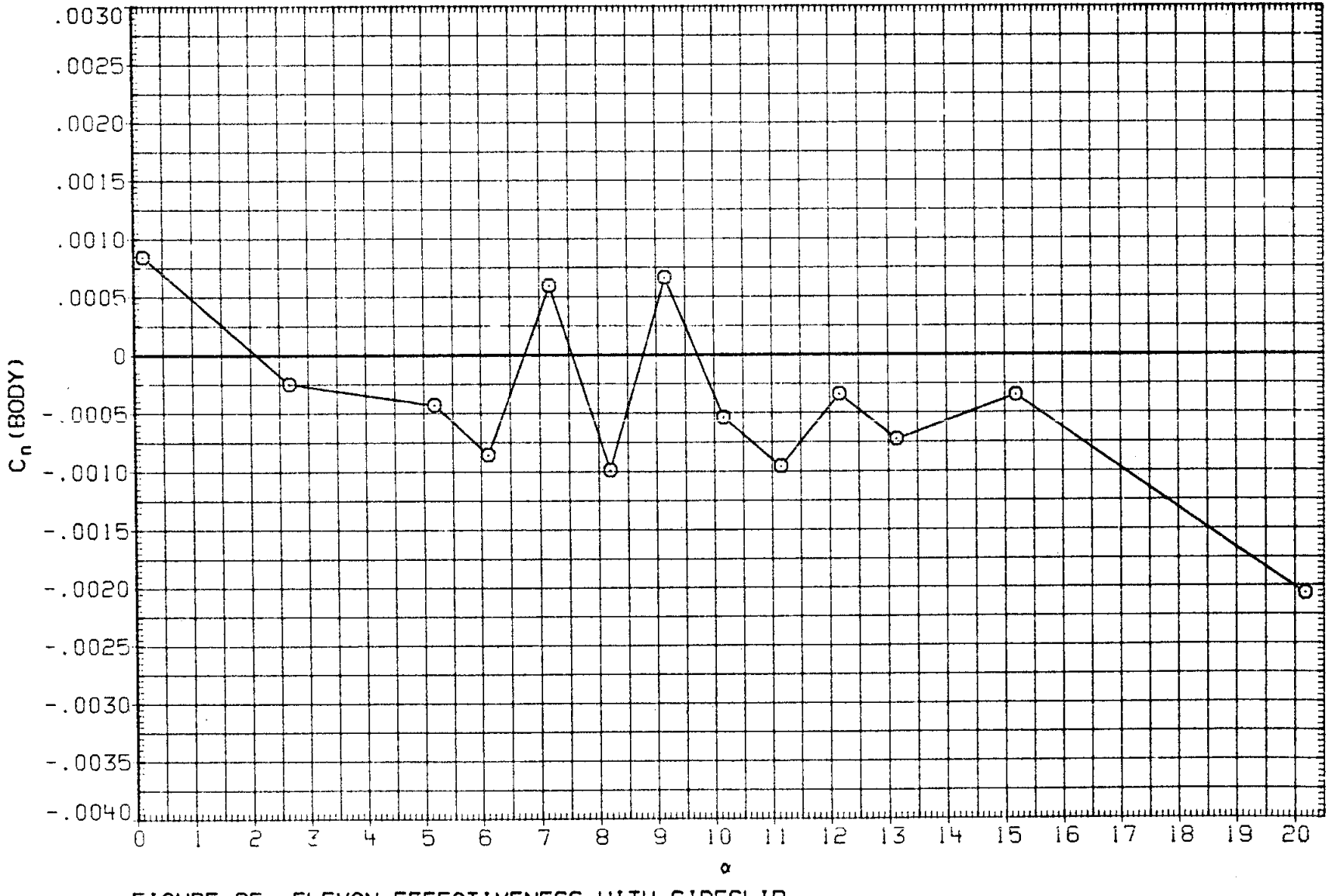

FIGURE 25. ELEVON EFFECTIVENESS WITH SIDESLIP

(J)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION
RK0006	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.
RKN021	□	DATA NOT AVAILABLE
RK0022	◇	DATA NOT AVAILABLE
OKN014	△	DATA NOT AVAILABLE

BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
.000	4.920	-.010	.000	25.500	-.030	.000
.000	5.000	.000	.000	25.000	.000	.000
2.000	4.920	-.010	.000	25.500	-.030	.000
2.000	5.000	.000	.000	25.000	.000	.000

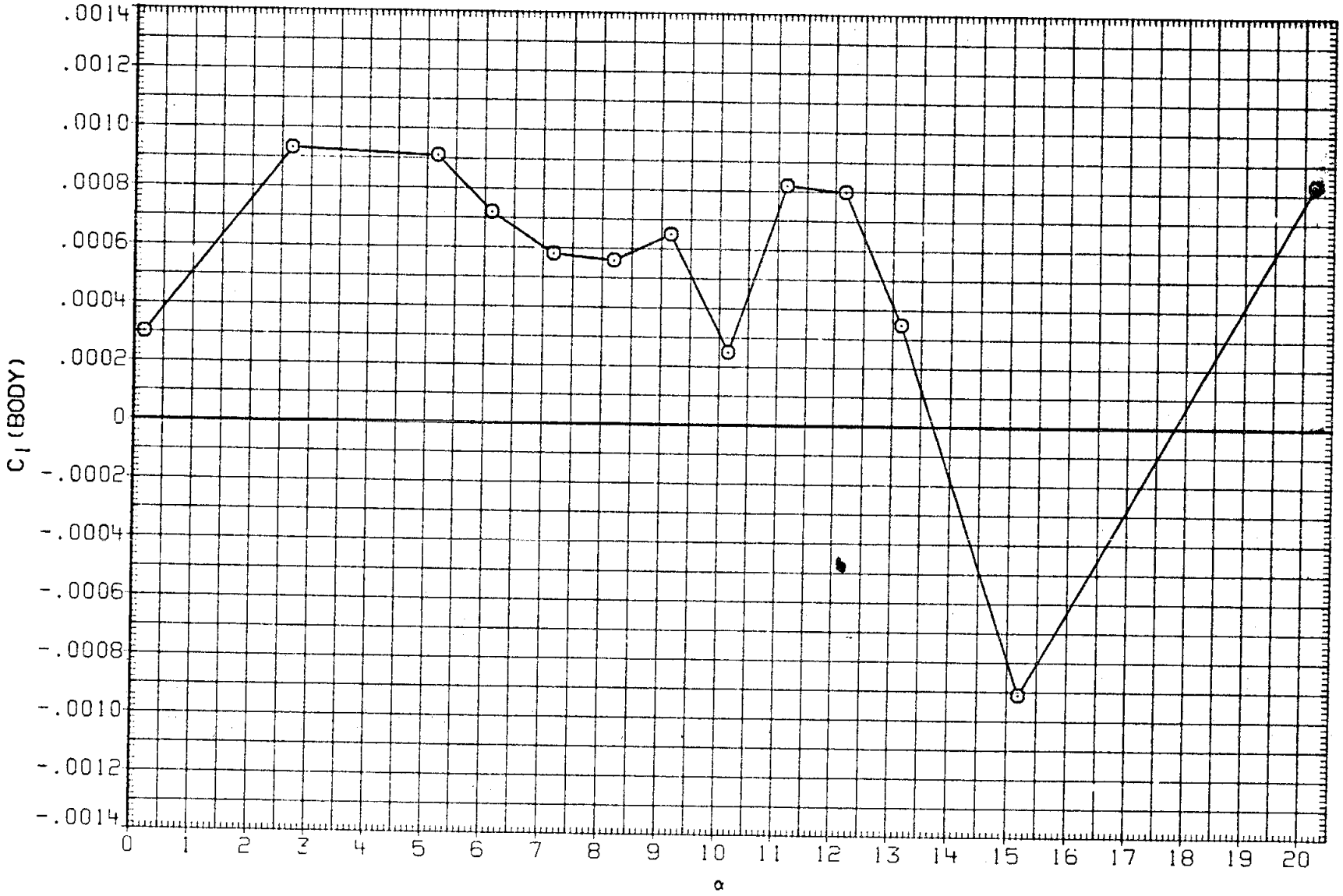

FIGURE 25. ELEVON EFFECTIVENESS WITH SIDESLIP

(J)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0007	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RKN025	◺	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	3.000	.000	25.000	.000	.000
R2F046	D	AMES 118-1-11 OA145A 01	.000	.000	3.000	.000	25.000	.000	

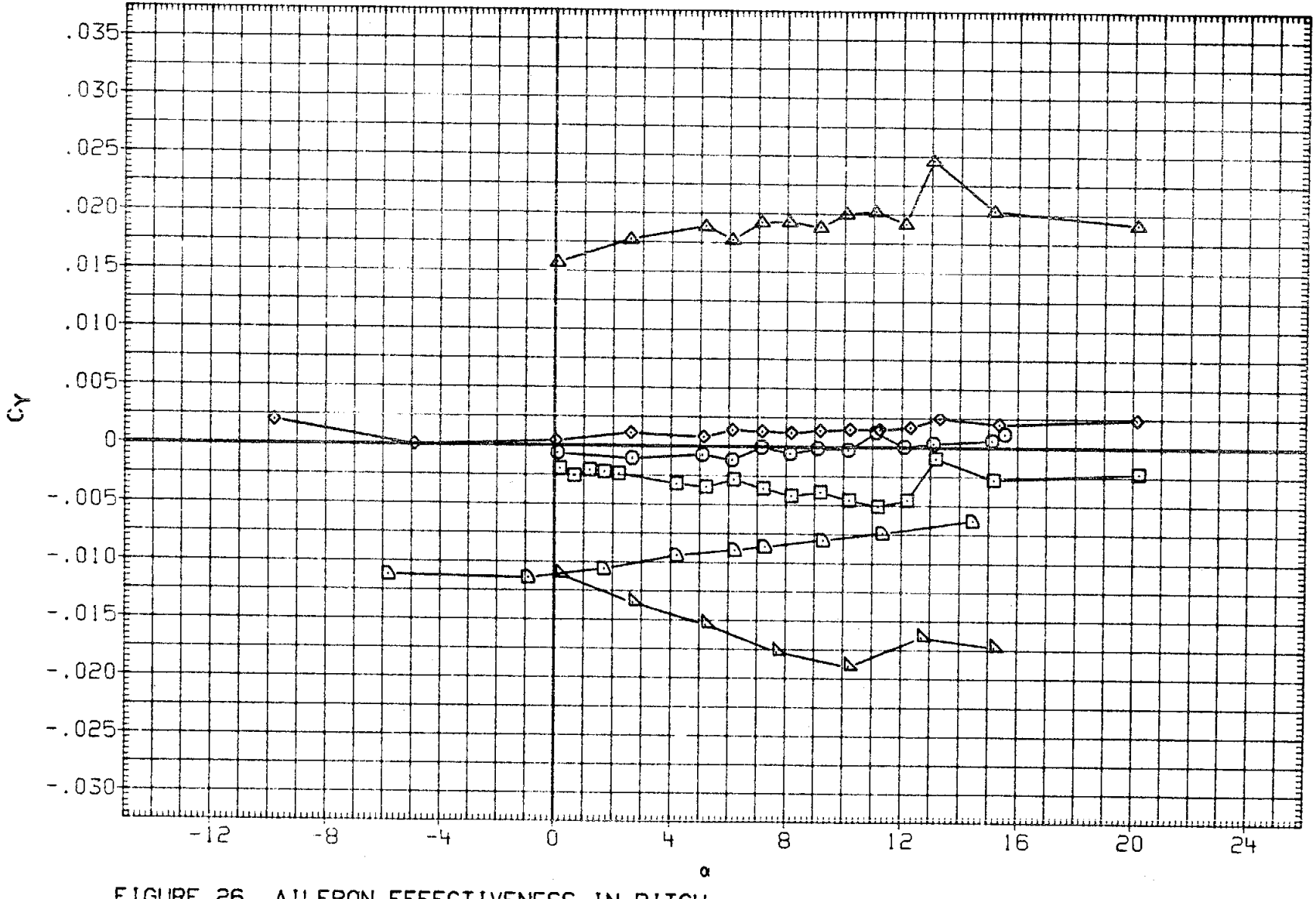

FIGURE 26. AILERON EFFECTIVENESS IN PITCH

(A)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0007	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RKN025	◺	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	3.000	.000	25.000	.000	.000
R2F046	◸	AMES 118-1-11 OA145A 01	.000	.000	3.000	.000	25.000	.000	

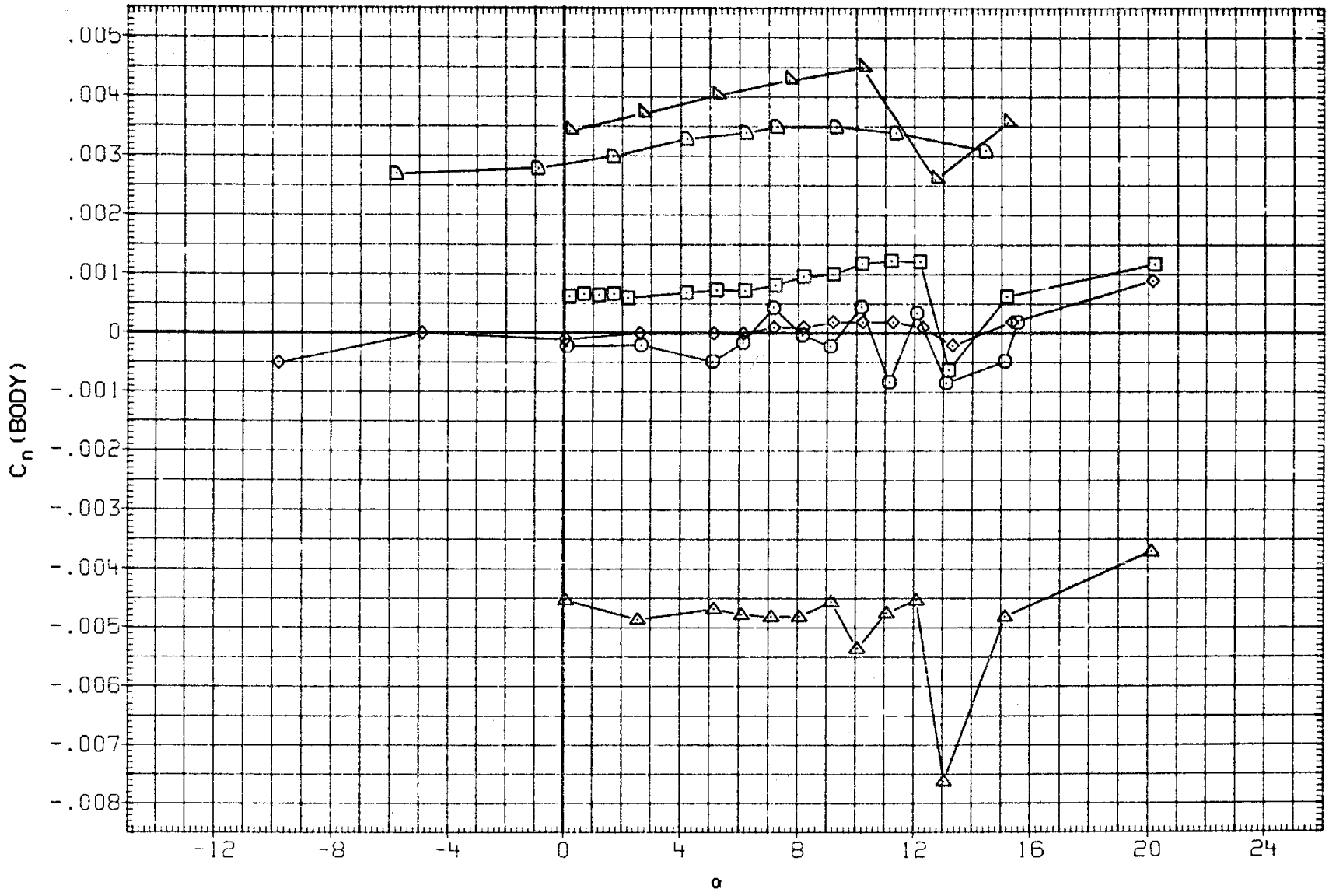

FIGURE 26. AILERON EFFECTIVENESS IN PITCH

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0007	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RKN025	▽	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	3.000	.000	25.000	.000	.000
R2F046	◺	AMES 118-1-11 OA145A 01	.000	.000	3.000	.000	25.000	.000	

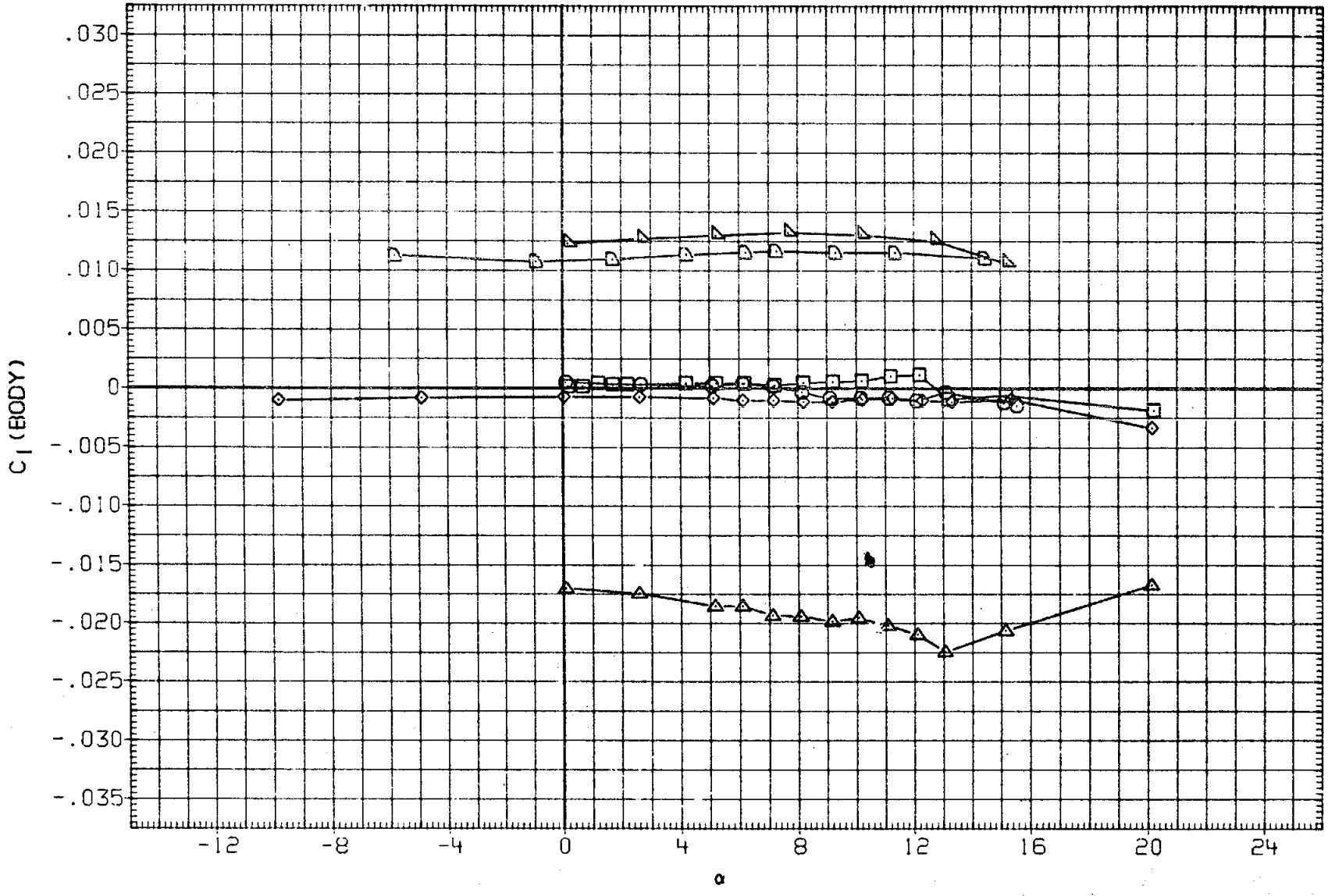

FIGURE 26. AILERON EFFECTIVENESS IN PITCH

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0007	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RKN025	◺	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	3.000	.000	25.000	.000	.000
R2F046	D	AMES 118-1-11 OA145A 01	.000	.000	3.000	.000	25.000	.000	

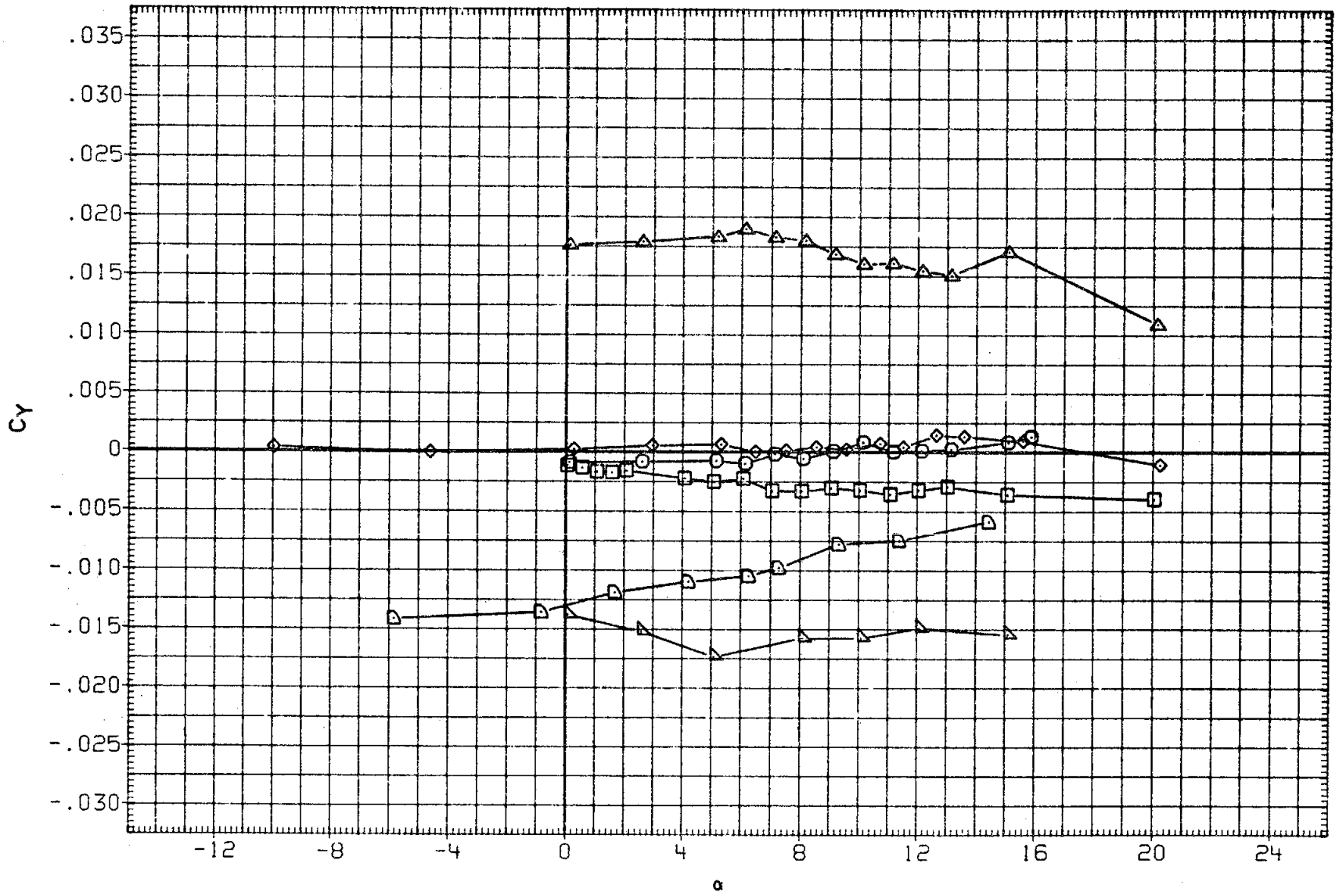

FIGURE 26. AILERON EFFECTIVENESS IN PITCH

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0007	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RKN025	◺	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	3.000	.000	25.000	.000	.000
R2F046	◗	AMES 118-1-11 OA145A 01	.000	.000	3.000	.000	25.000	.000	

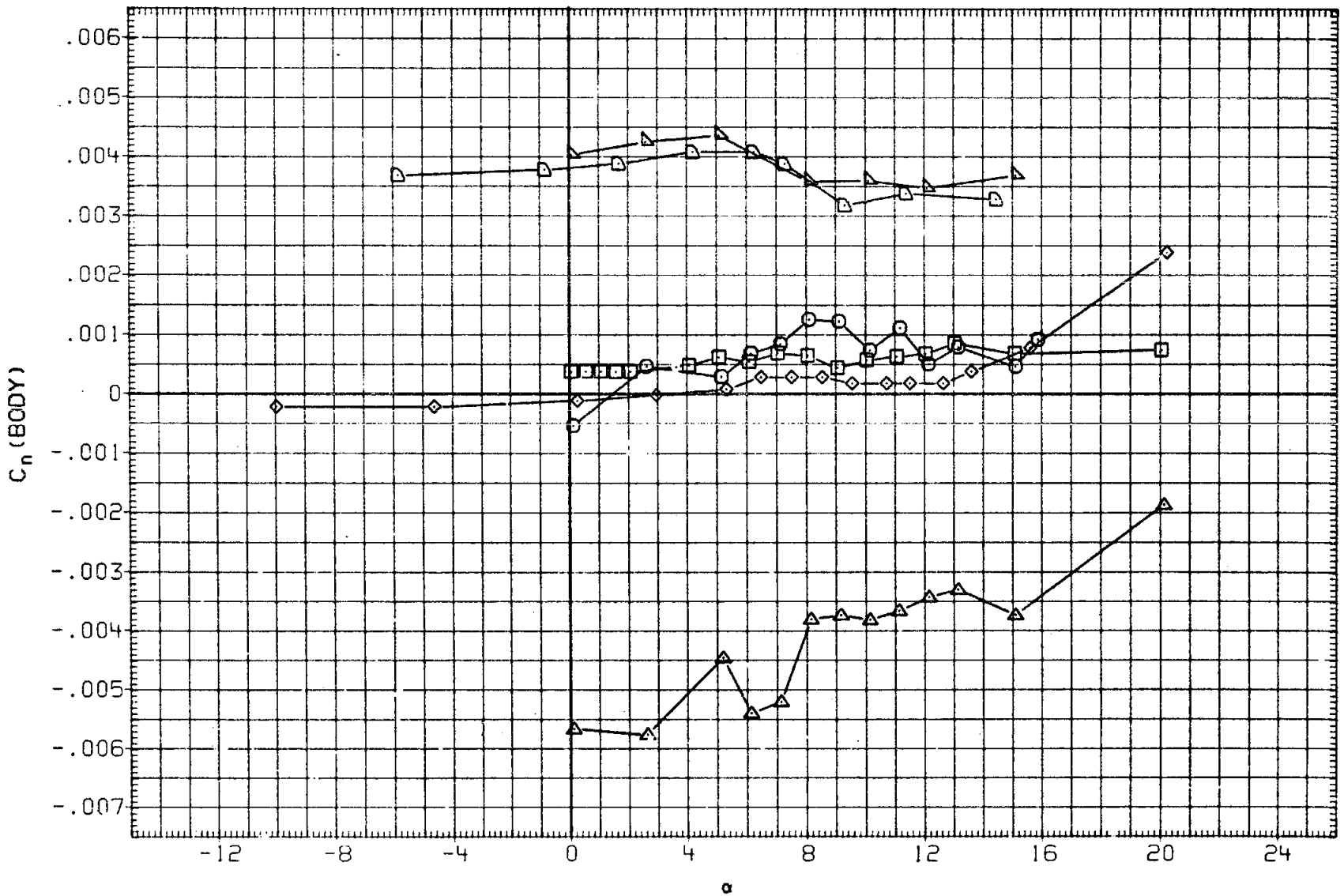

FIGURE 26. AILERON EFFECTIVENESS IN PITCH

(B) MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0007	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RKN025	◺	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	3.000	.000	25.000	.000	.000
R2F046	◗	AMES 118-1-11 OA145A 01	.000	.000	3.000	.000	25.000	.000	

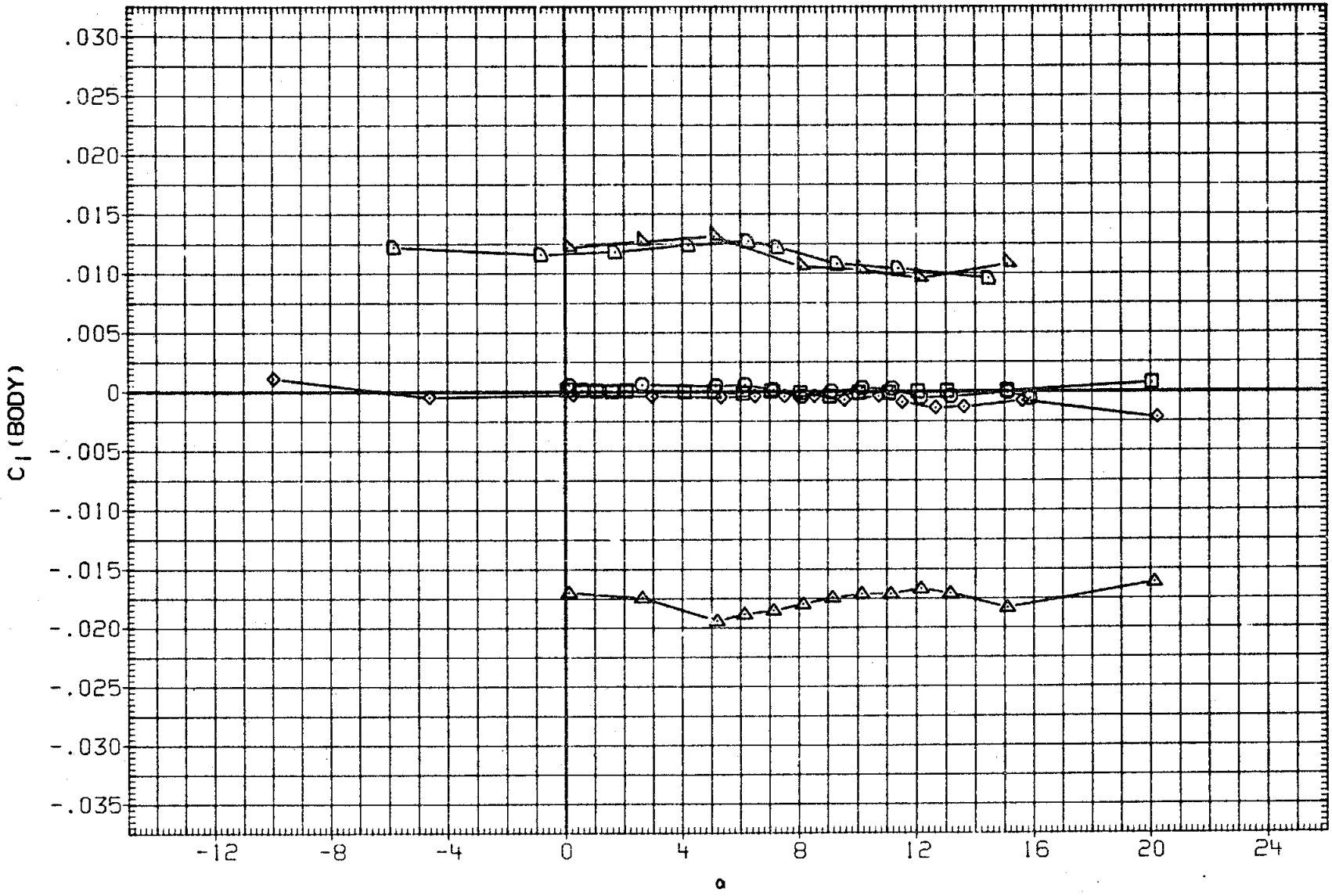

FIGURE 26. AILERON EFFECTIVENESS IN PITCH

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0007	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RKN025	◺	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	.000
R2F046	◺	AMES 118-1-11 OA145A 01	.000	.000	3.000	.000	25.000	.000	

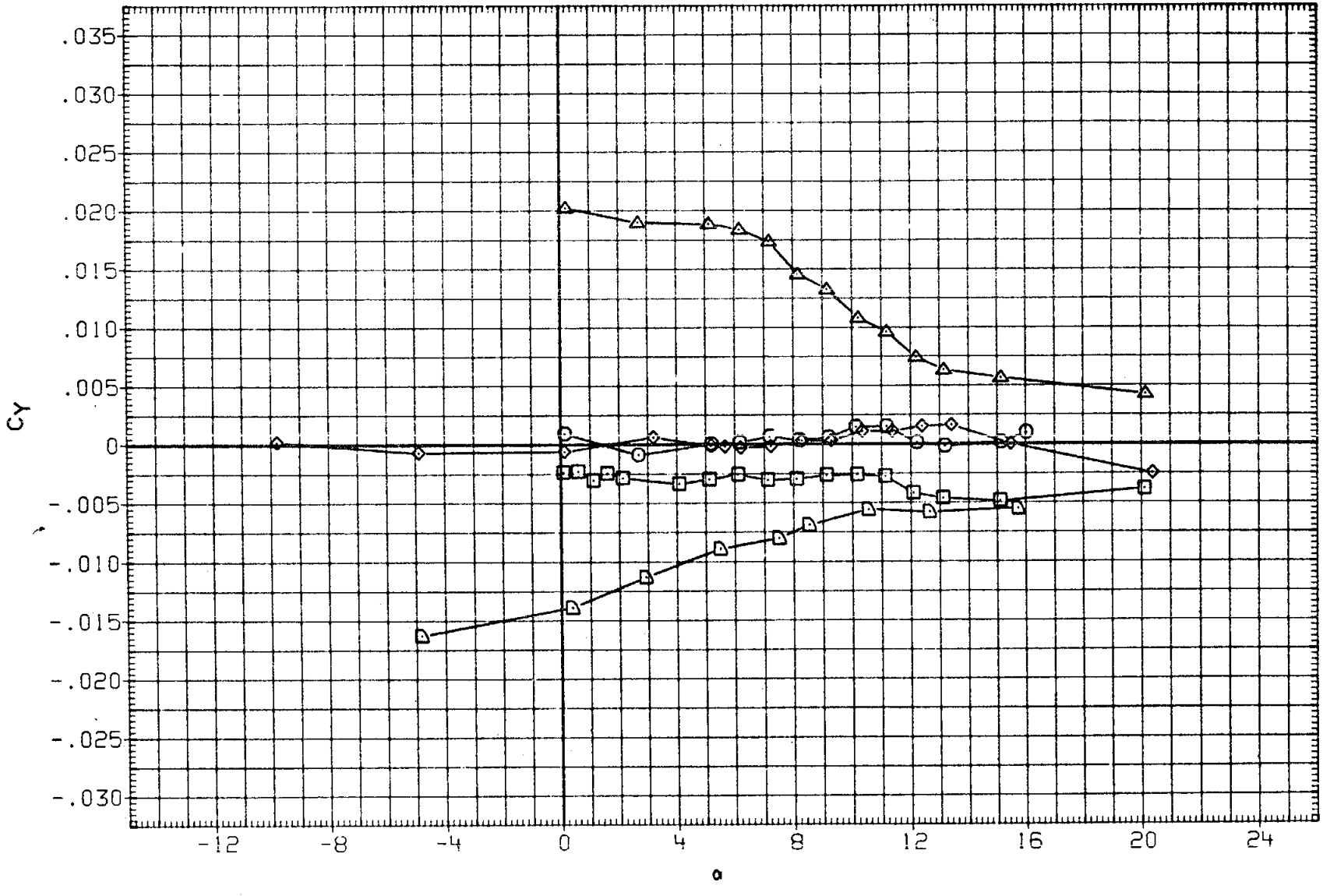

FIGURE 26. AILERON EFFECTIVENESS IN PITCH

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0007	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RKN025	◺	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	.000
R2F046	D	AMES 118-1-11 OA145A 01	.000	.000	3.000	.000	25.000	.000	

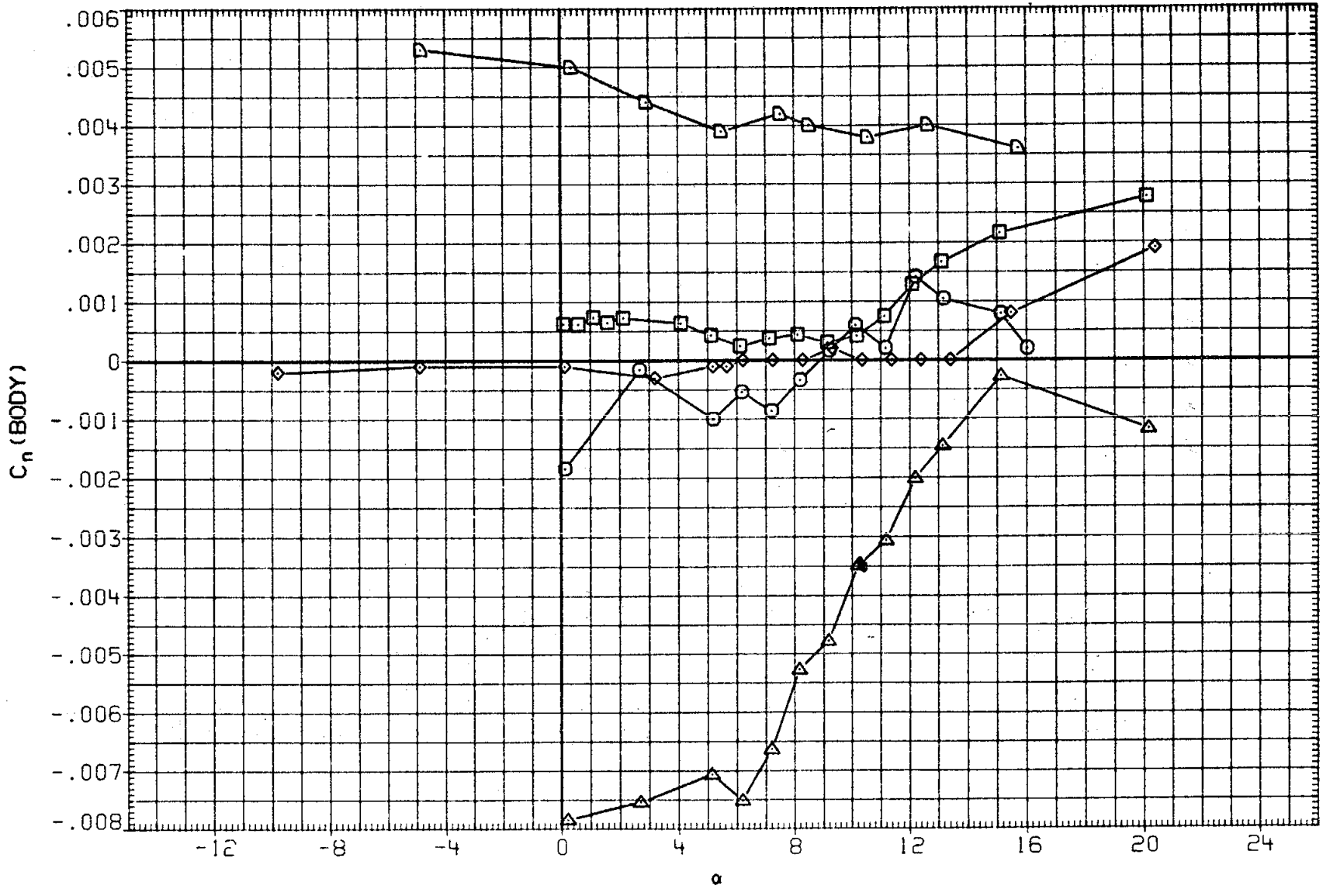

FIGURE 26. AILERON EFFECTIVENESS IN PITCH

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0007	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RKN025	◺	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	.000
R2F046	◻	AMES 118-1-11 OA145A 01	.000	.000	3.000	.000	25.000	.000	

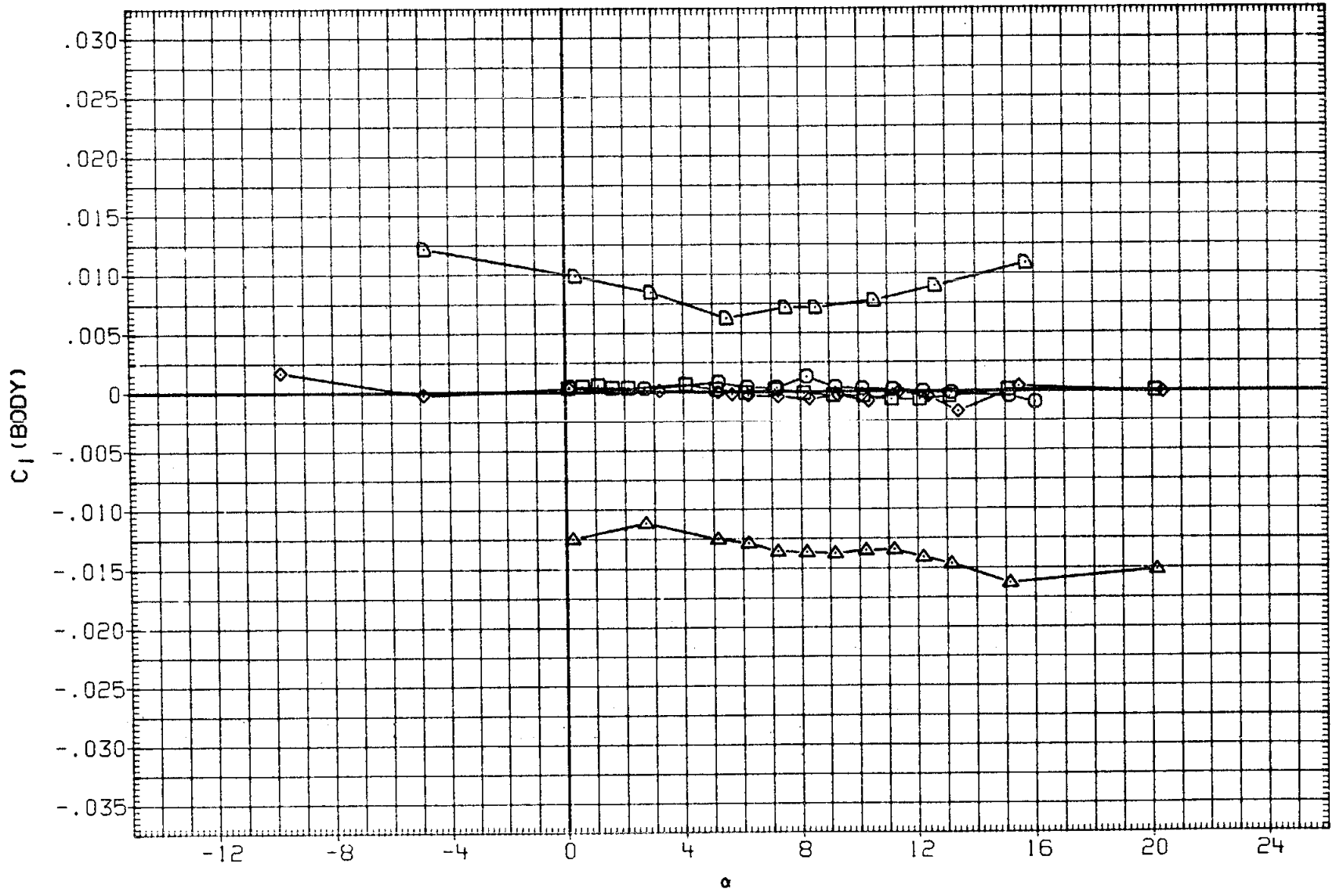

FIGURE 26. AILERON EFFECTIVENESS IN PITCH

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0007	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RKN025	◺	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	000	.000
R2F046	D	AMES 118-1-11 OA145A 01	.000	.000	3.000	.000	25.000	.000	

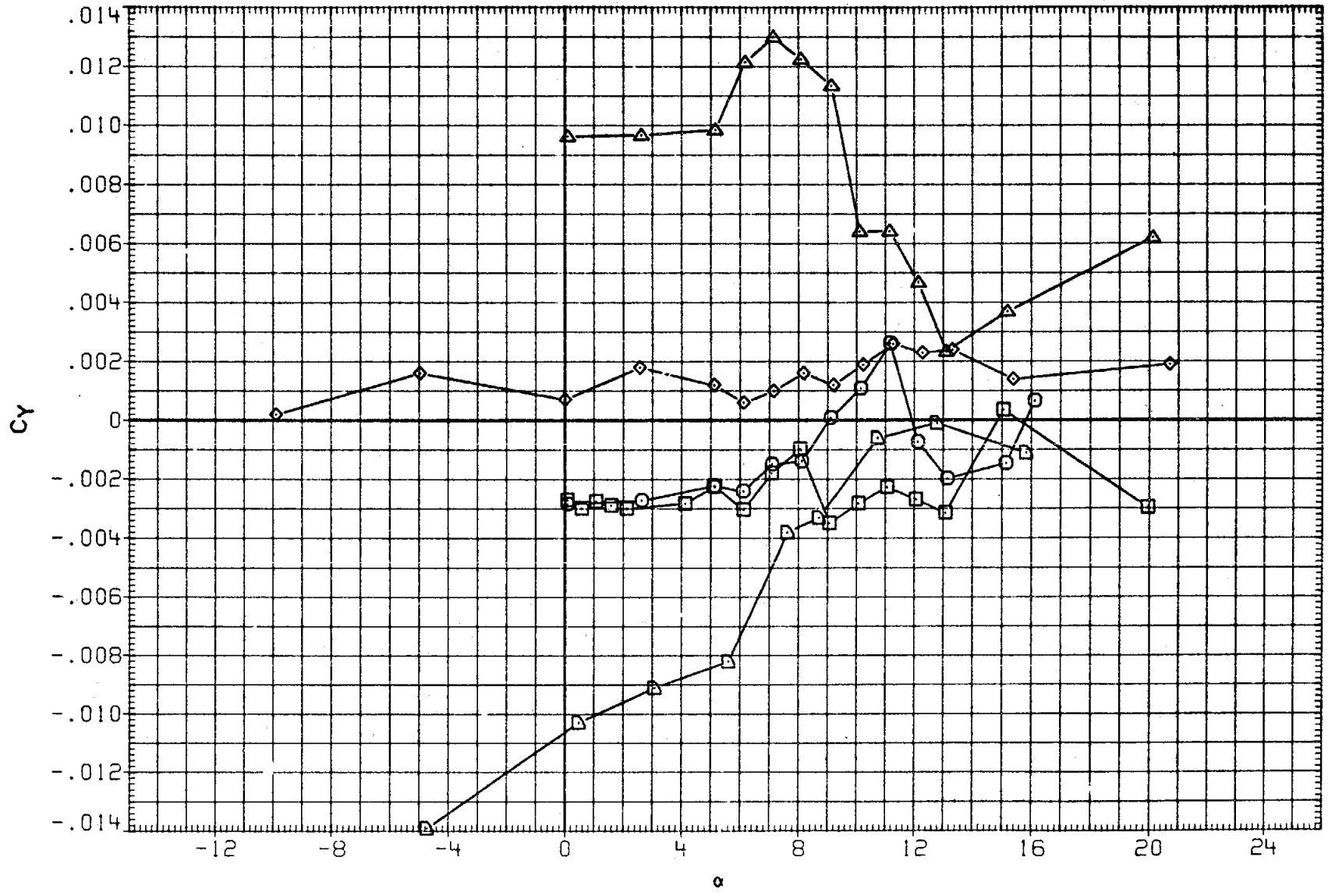

FIGURE 26. AILERON EFFECTIVENESS IN PITCH

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0007	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RKN025	◺	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	.000
R2F046	D	AMES 118-1-11 OA145A 01	.000	.000	3.000	.000	25.000	.000	

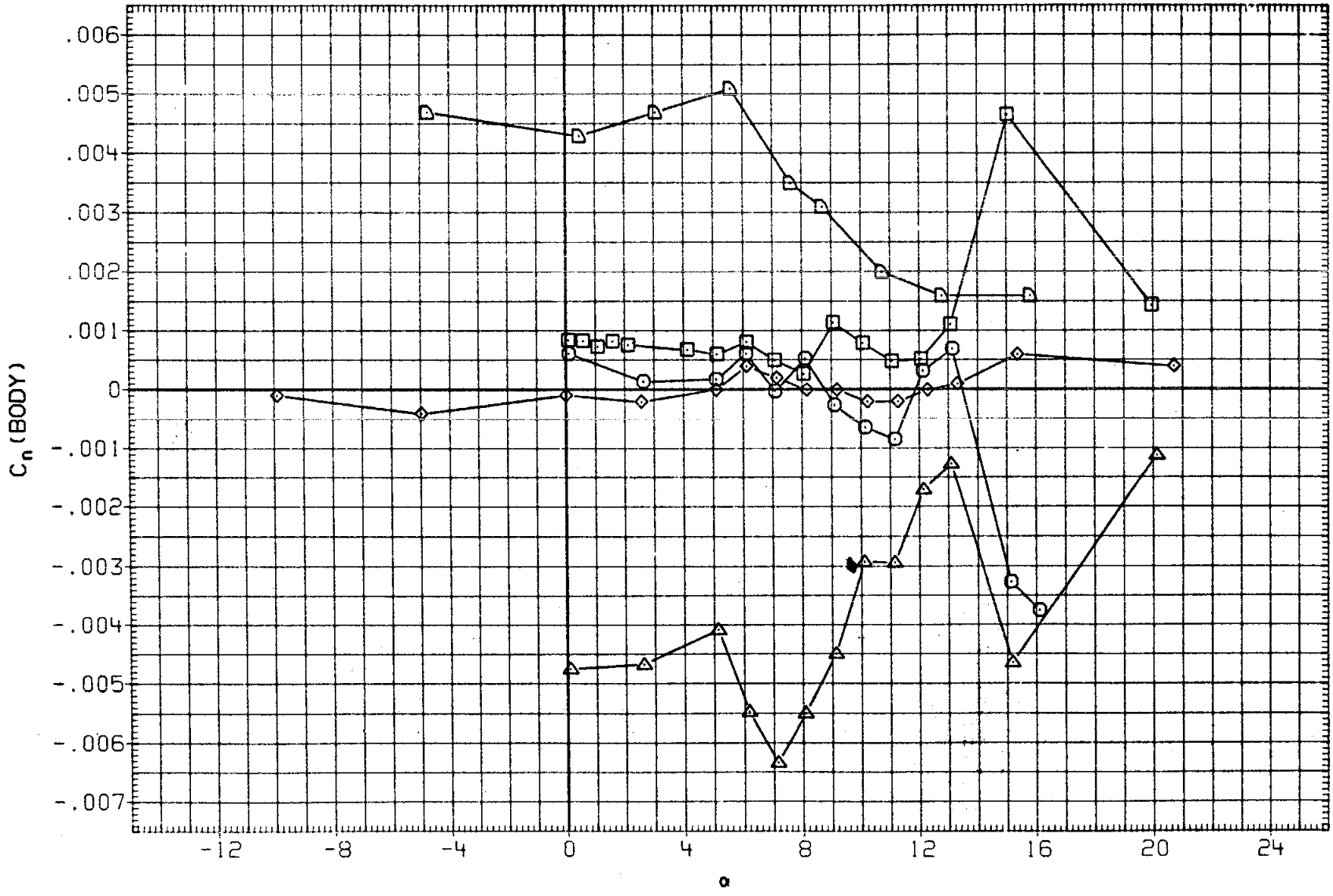

FIGURE 26. AILERON EFFECTIVENESS IN PITCH

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0007	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RKN025	◺	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	.000
R2F046	◻	AMES 118-1-11 OA145A 01	.000	.000	3.000	.000	25.000	.000	

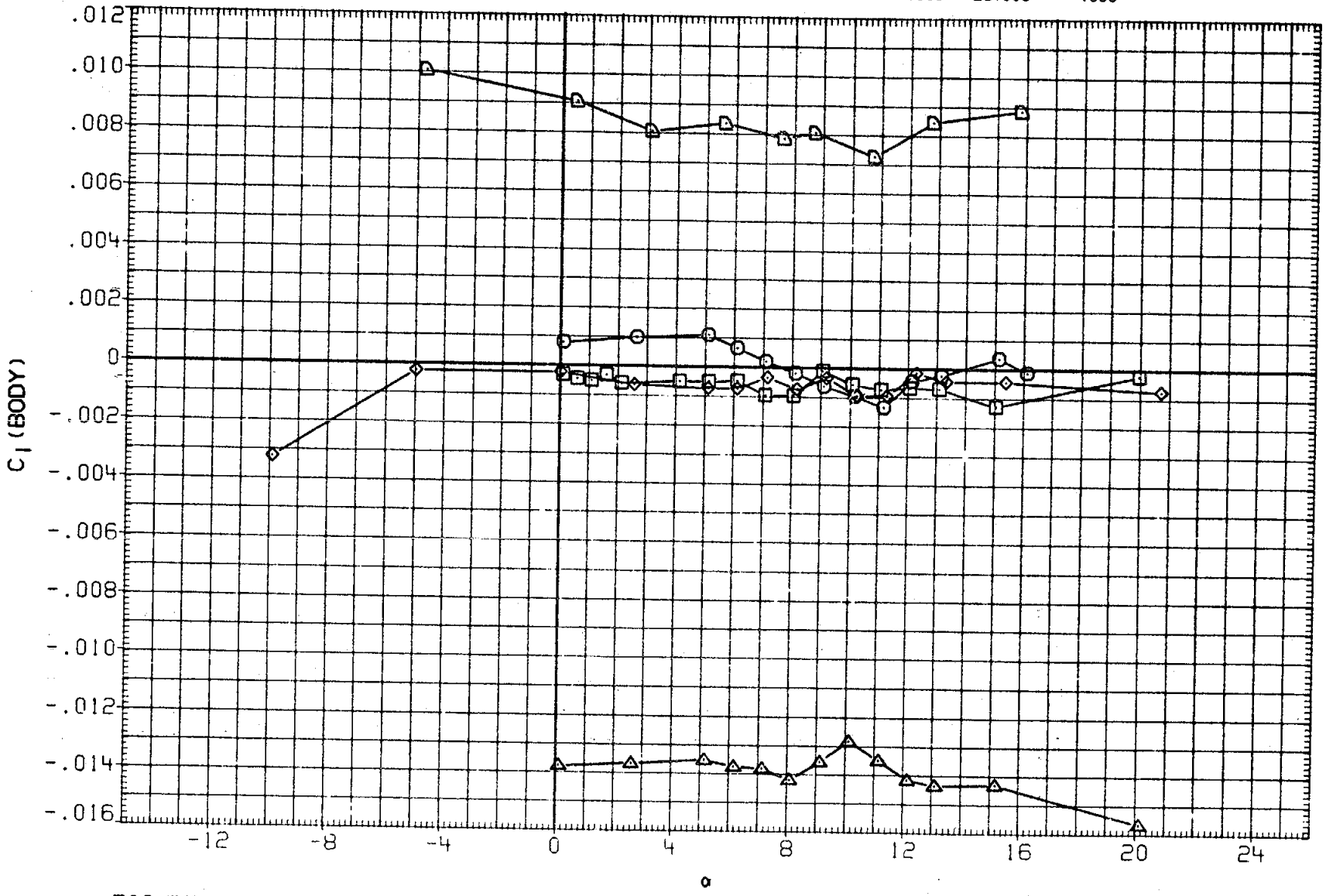

FIGURE 26. AILERON EFFECTIVENESS IN PITCH

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RK0007	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RKN025	◺	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	.000
R2F046	◺	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	

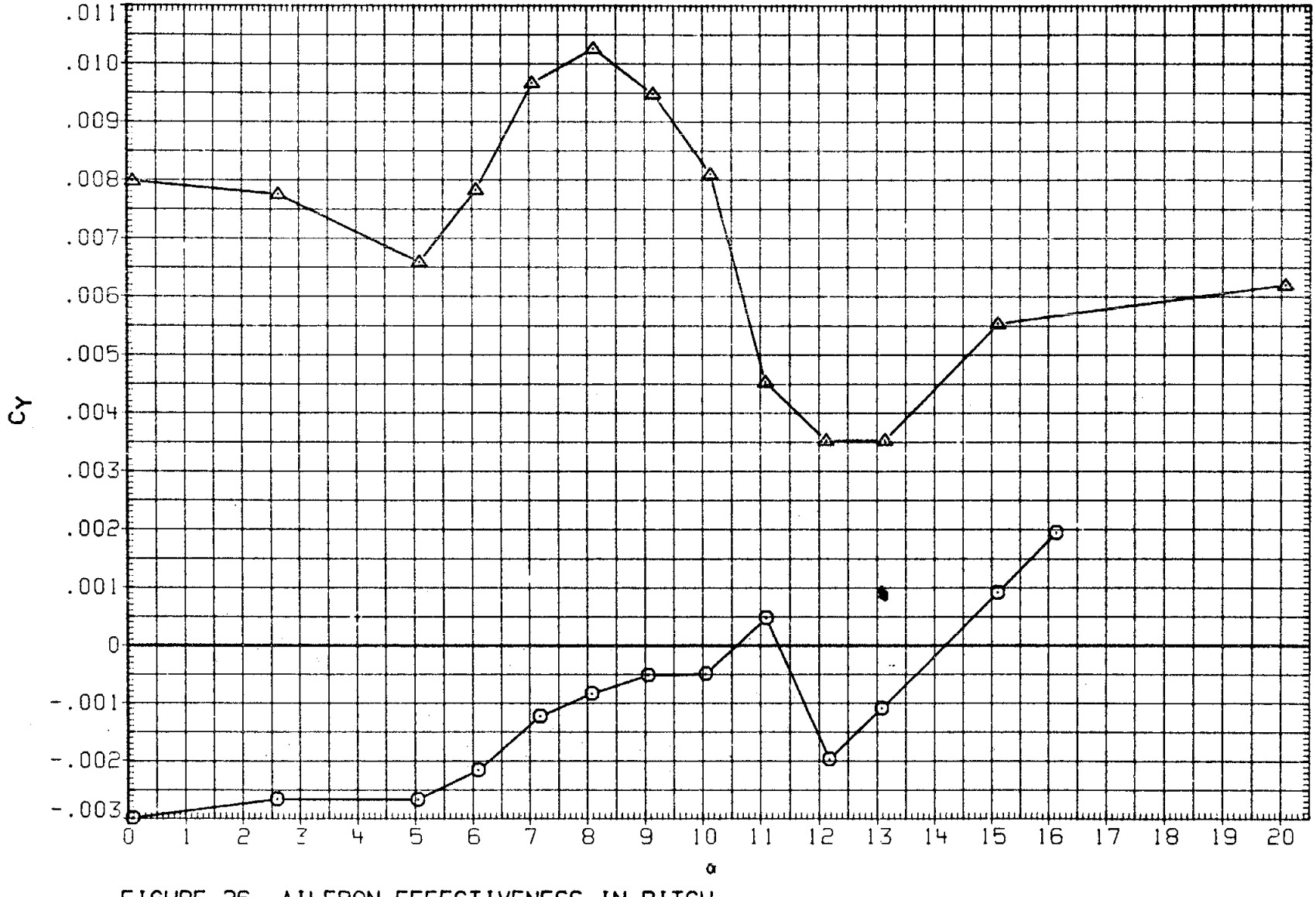

FIGURE 26. AILERON EFFECTIVENESS IN PITCH

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RK0007	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RKN025	◺	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	.000
R2F046	◺	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	

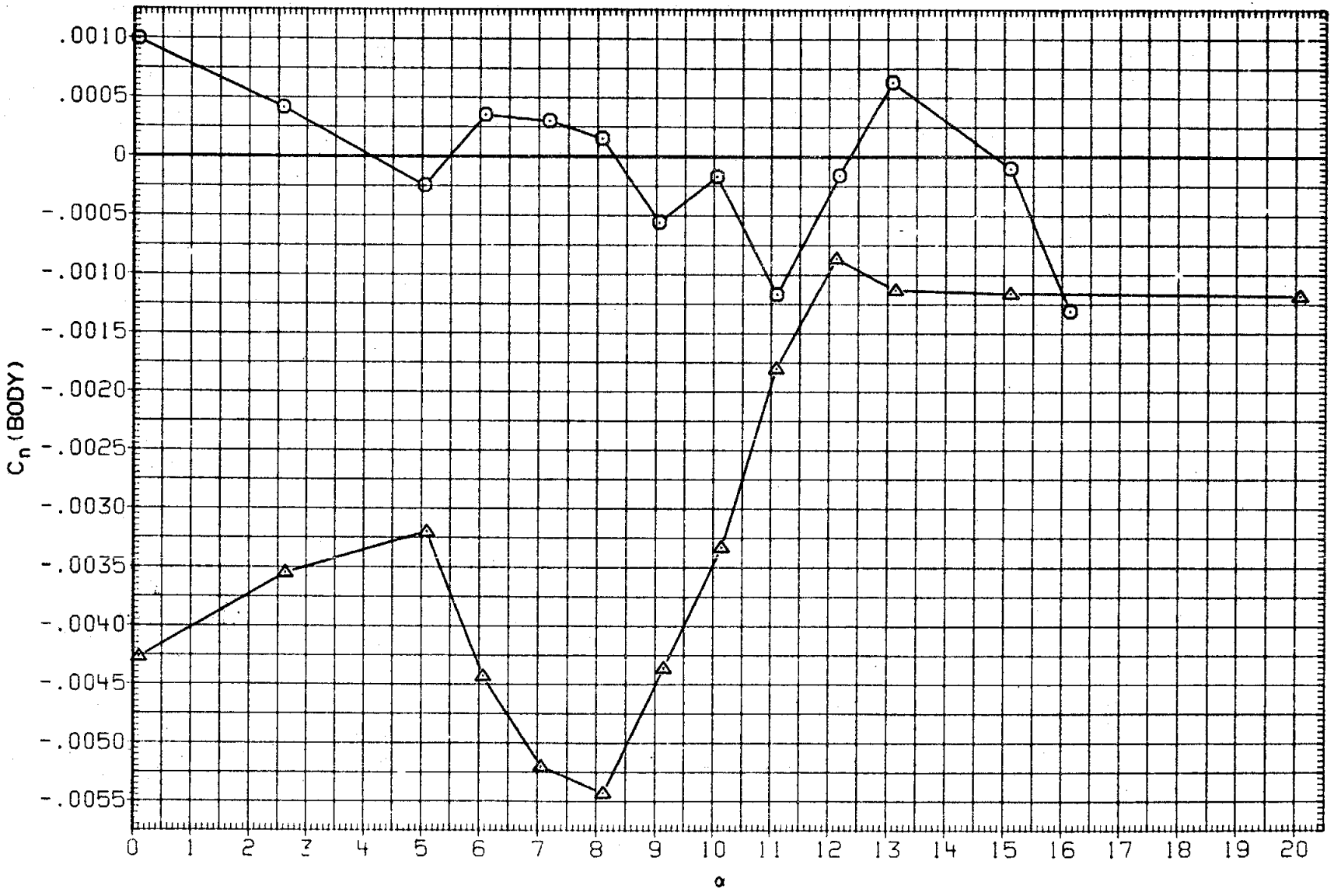

FIGURE 26. AILERON EFFECTIVENESS IN PITCH

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RK0007	△	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RKN025	◺	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	.000
R2F046	D	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	

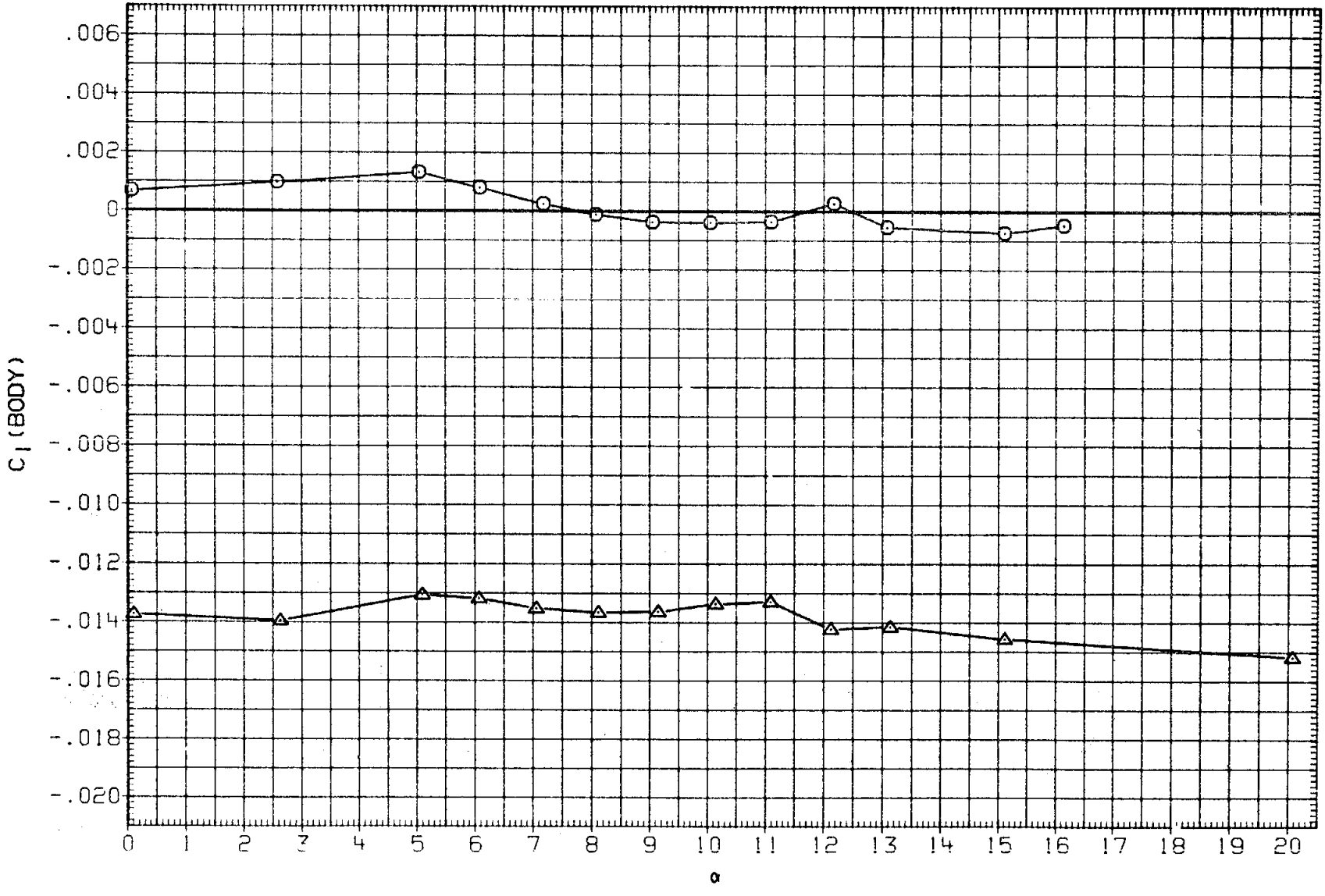

FIGURE 26. AILERON EFFECTIVENESS IN PITCH

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0007	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RKN025	◺	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	.000
R2F046	◻	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	

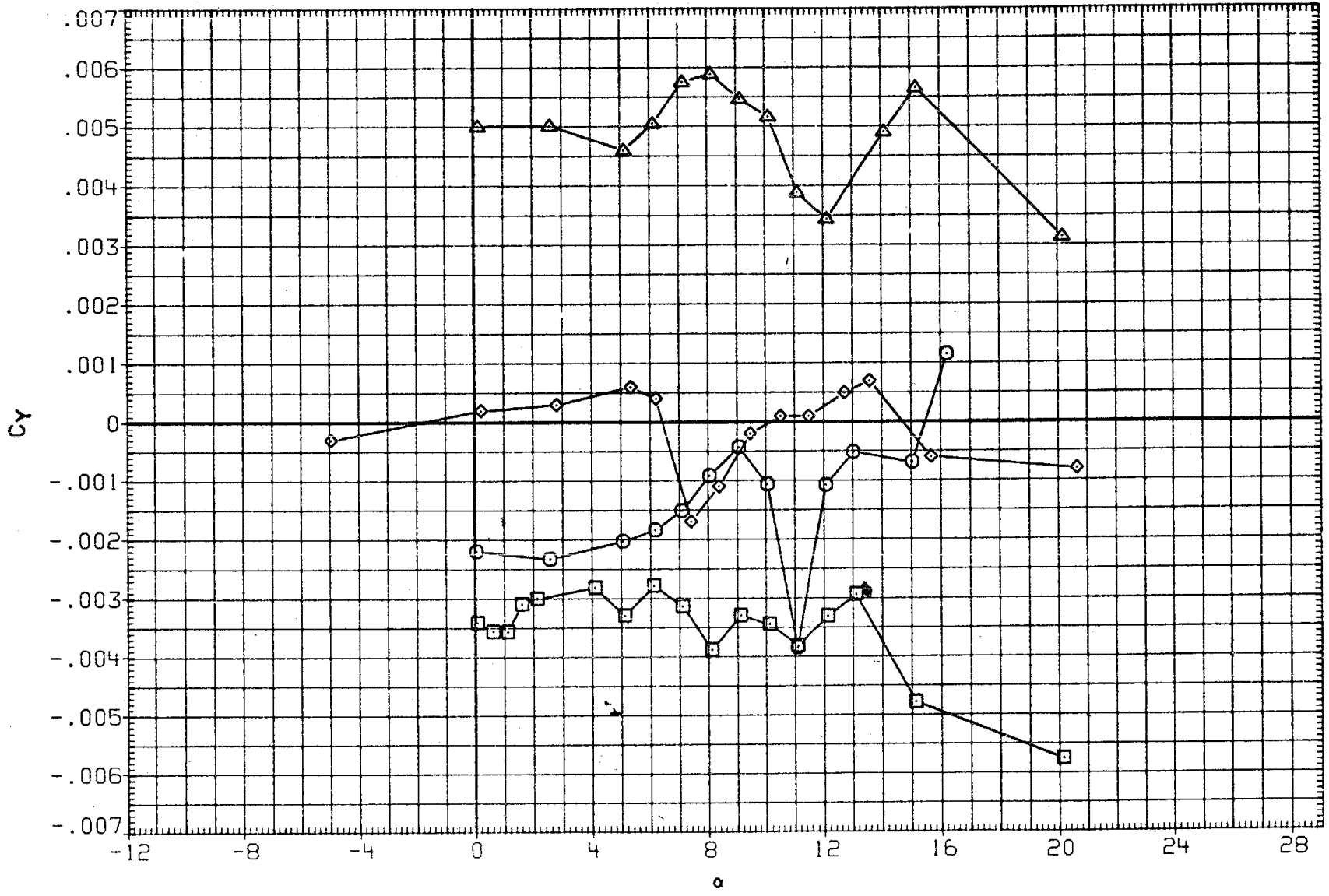

FIGURE 26. AILERON EFFECTIVENESS IN PITCH

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 11B-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0007	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RKN025	◺	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	.000
R2F046	◺	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	

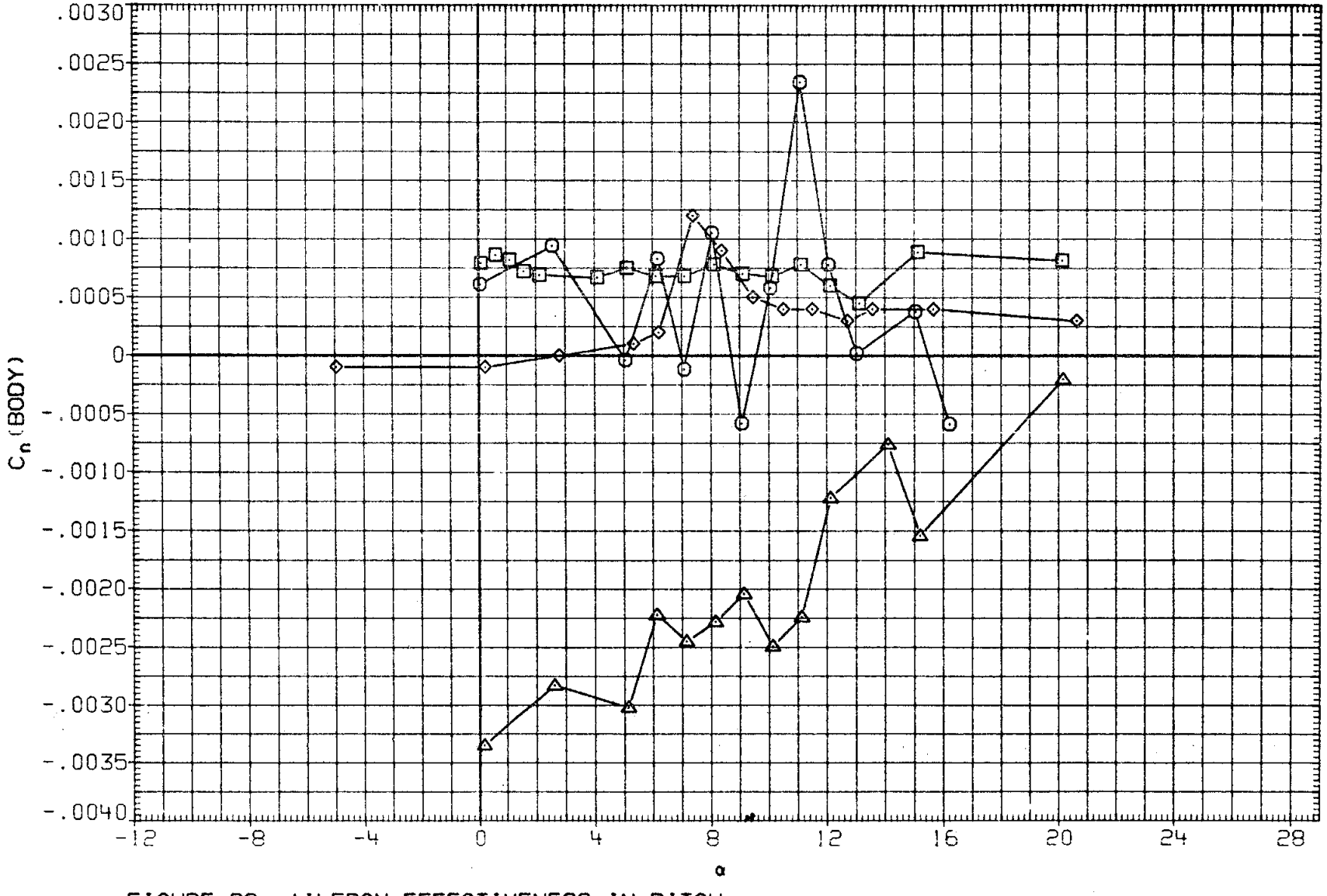

FIGURE 26. AILERON EFFECTIVENESS IN PITCH

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 11B-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0007	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RKN025	◺	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	.000
R2F046	D	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	

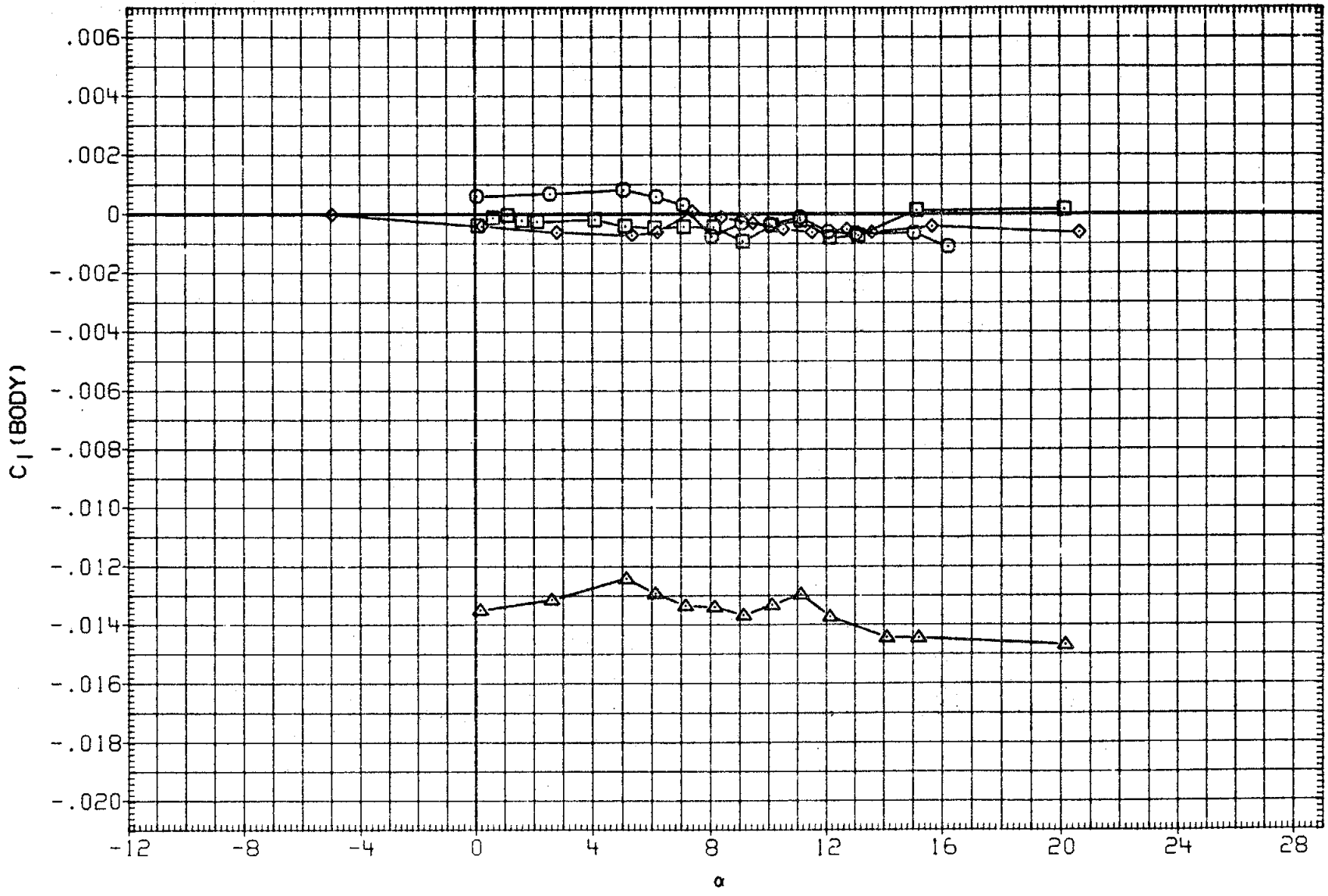

FIGURE 26. AILERON EFFECTIVENESS IN PITCH

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0007	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RKN025	◺	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	.000
R2F046	◻	AMES 118-1-11 OA145A 01	.000	.000	3.000	.000	25.000	.000	

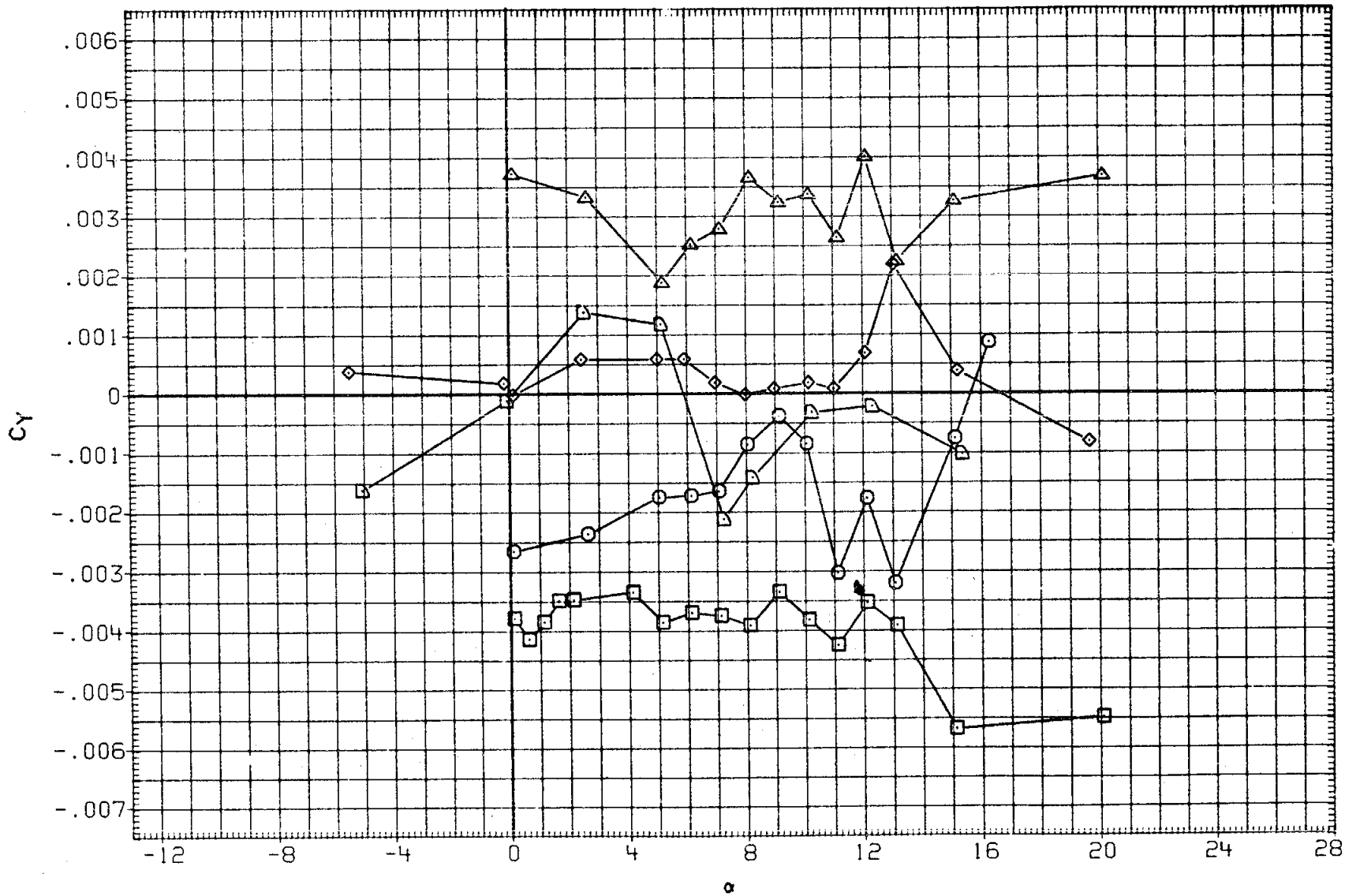

FIGURE 26. AILERON EFFECTIVENESS IN PITCH

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0007	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RKN025	◺	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	.000
R2F046	◺	AMES 118-1-11 OA145A 01	.000	.000	3.000	.000	25.000	.000	

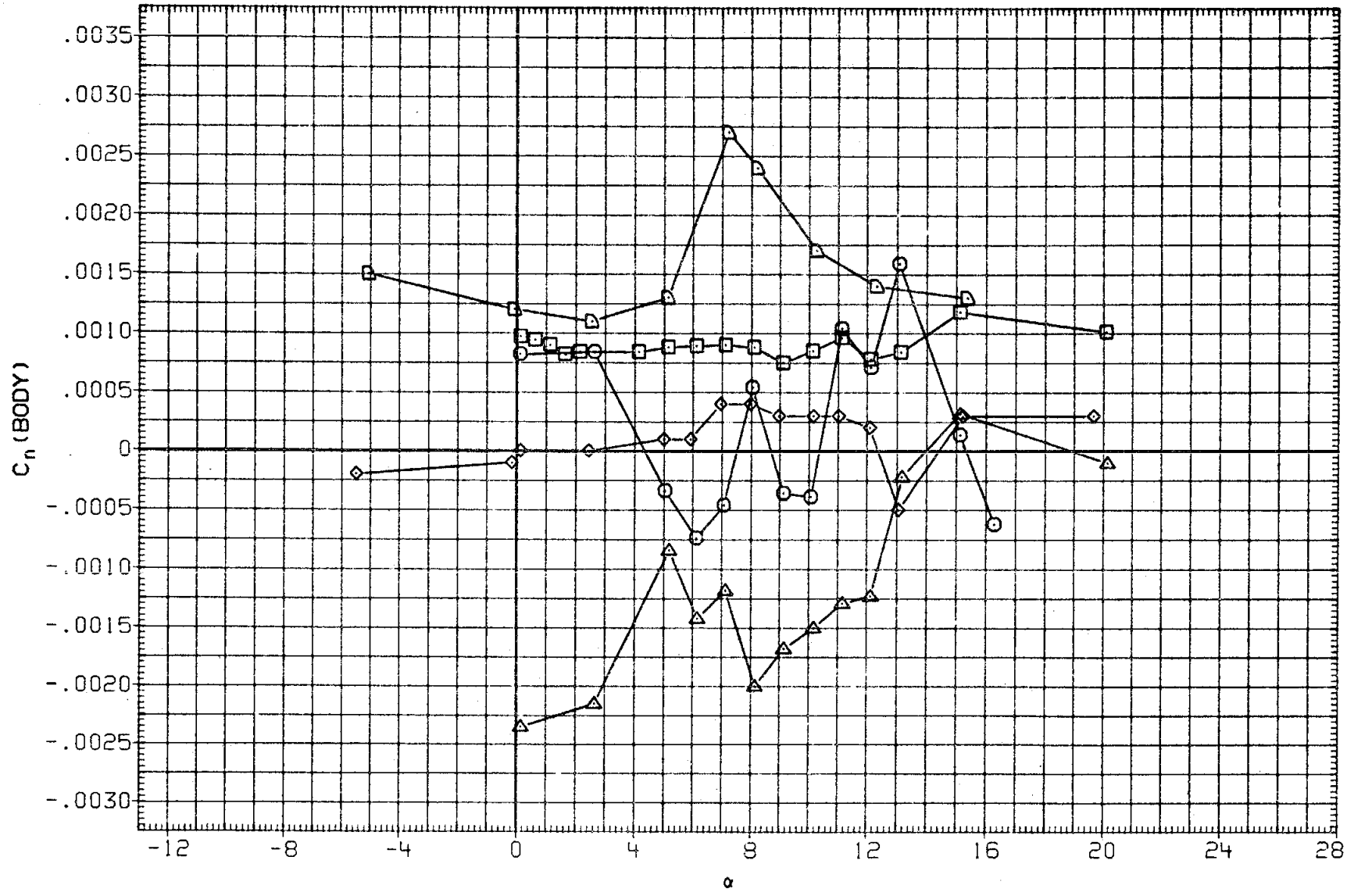

FIGURE 26. AILERON EFFECTIVENESS IN PITCH

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0007	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RKN025	◺	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	.000
R2F046	◺	AMES 118-1-11 OA145A 01	.000	.000	3.000	.000	25.000	.000	

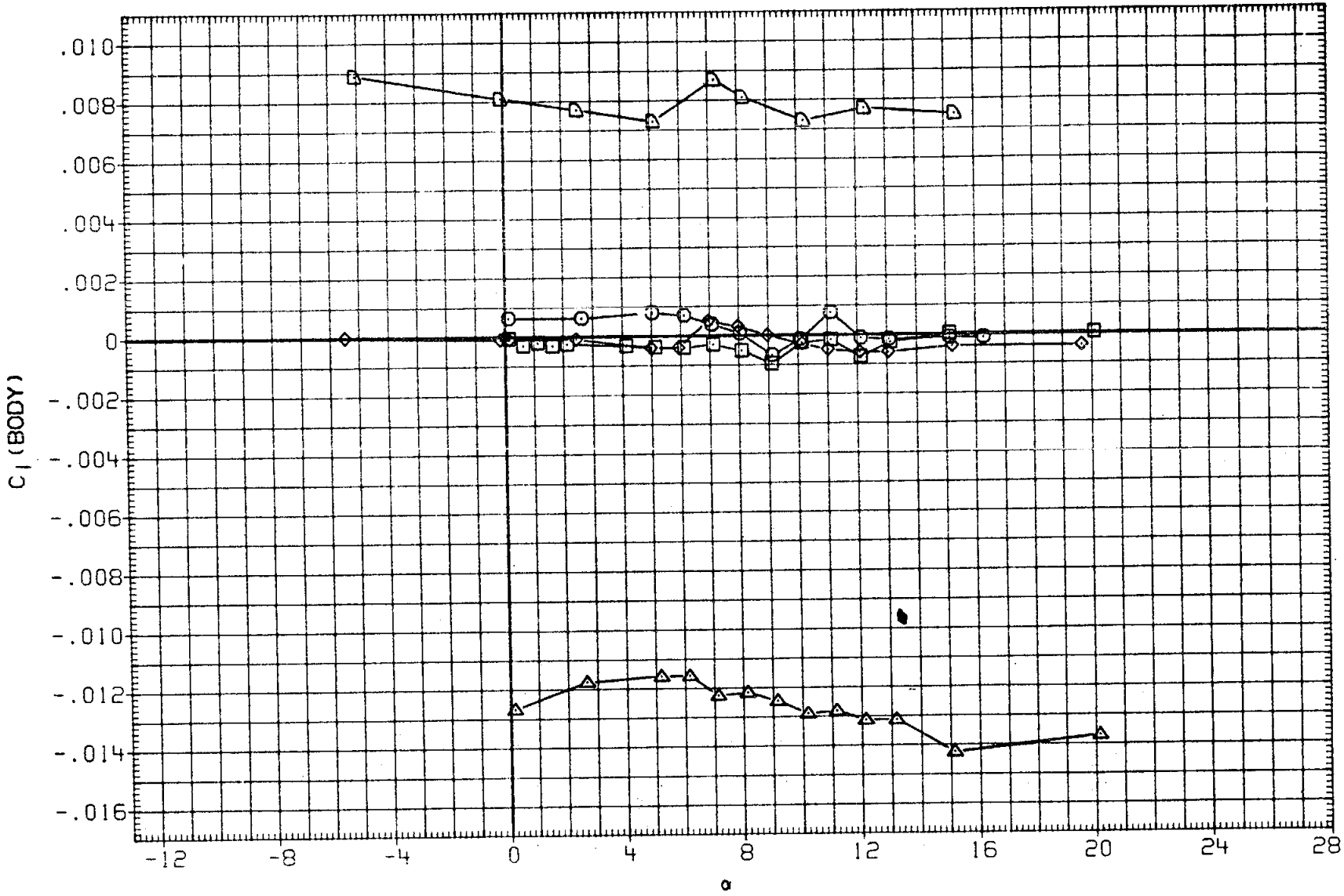

FIGURE 26. AILERON EFFECTIVENESS IN PITCH

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0007	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RKN025	◺	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	.000
R2F046	◺	AMES 118-1-11 OA145A 01	.000	.000	3.000	.000	25.000	.000	

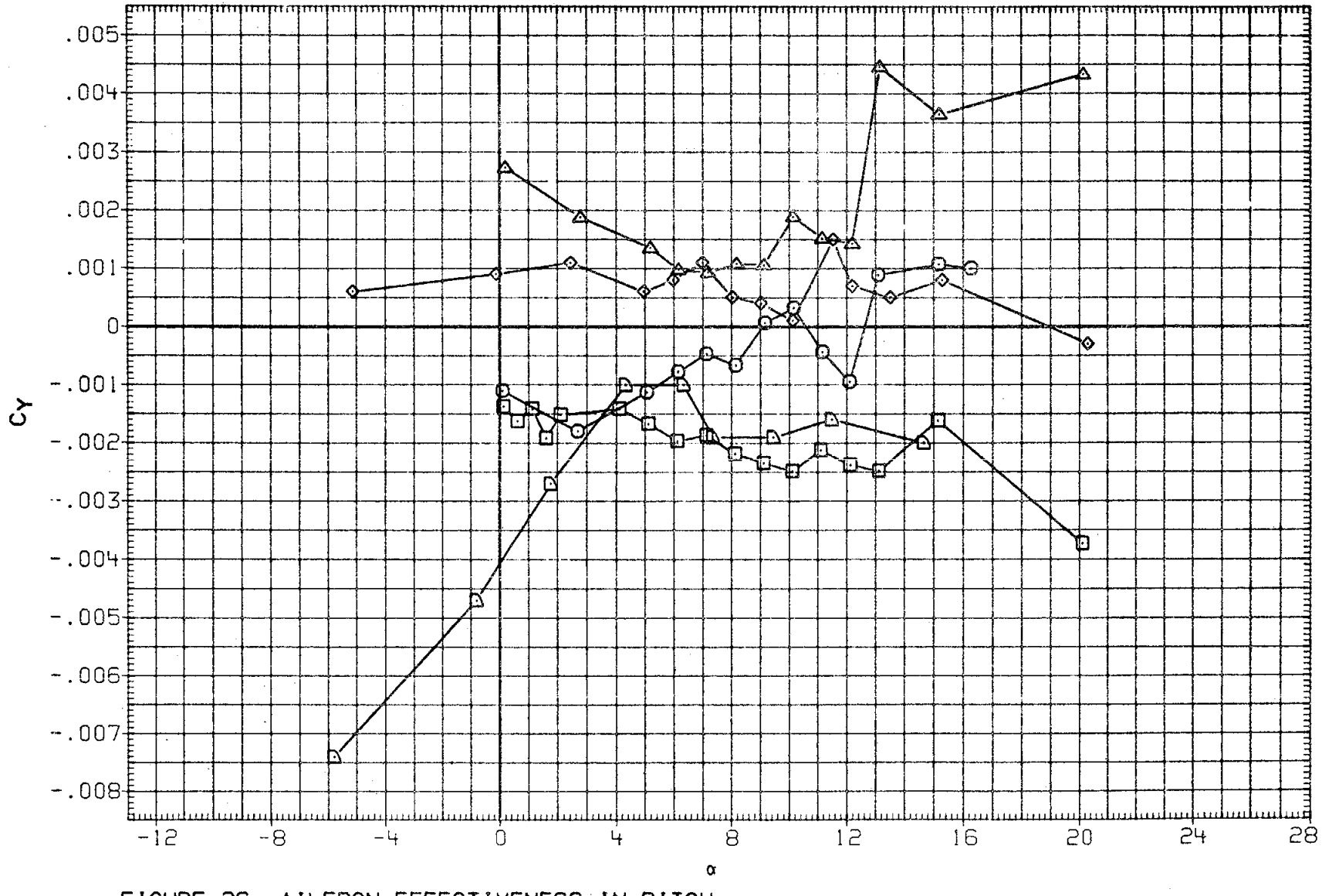

FIGURE 26. AILERON EFFECTIVENESS IN PITCH

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0007	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RKN025	◺	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	.000
R2F046	◺	AMES 118-1-11 OA145A 01	.000	.000	3.000	.000	25.000	.000	

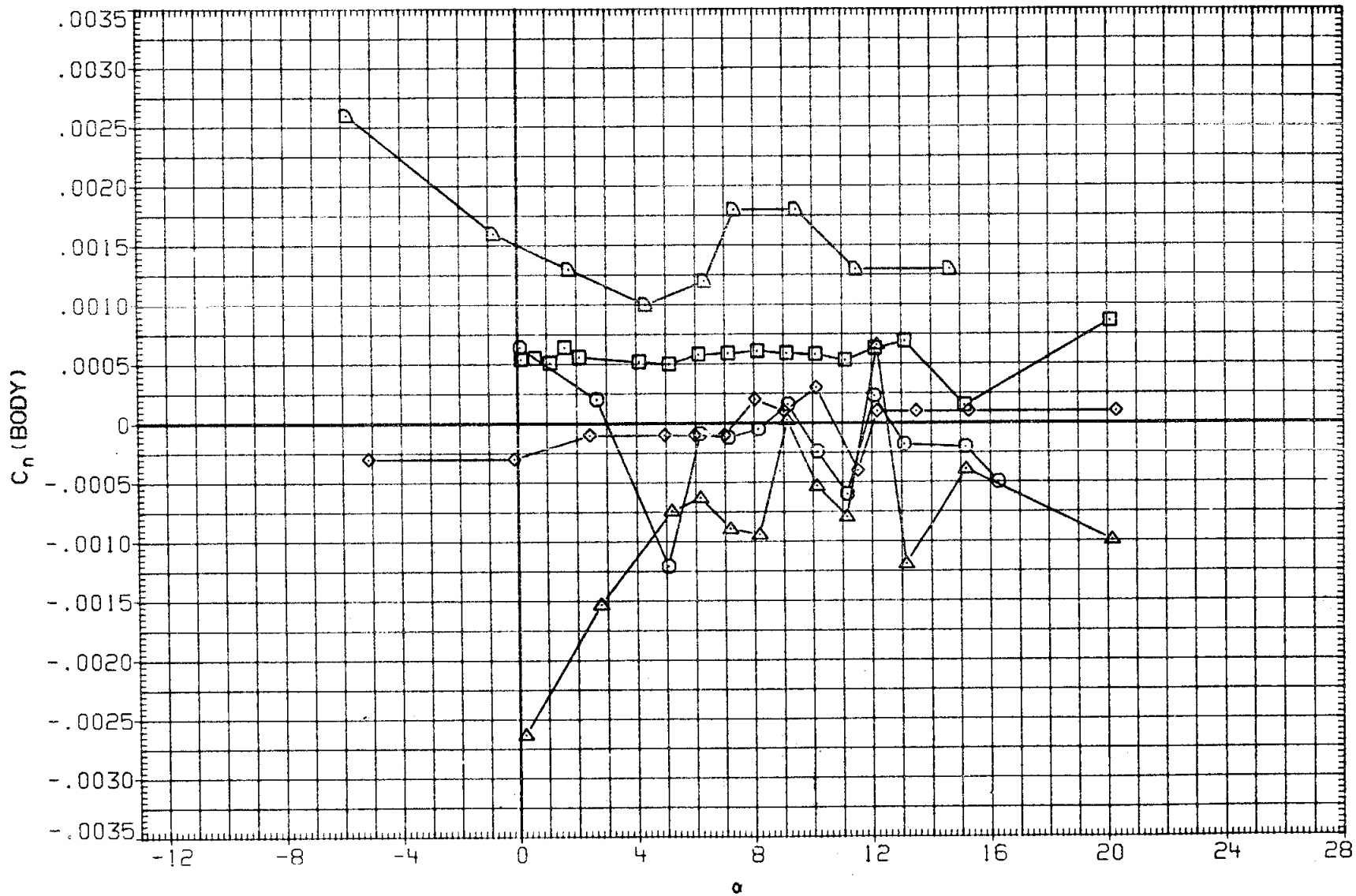

FIGURE 26. AILERON EFFECTIVENESS IN PITCH

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 11B-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0007	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RKN025	◺	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	.000
R2F046	⬠	AMES 11B-1-11 OA145A 01	.000	.000	3.000	.000	25.000	.000	

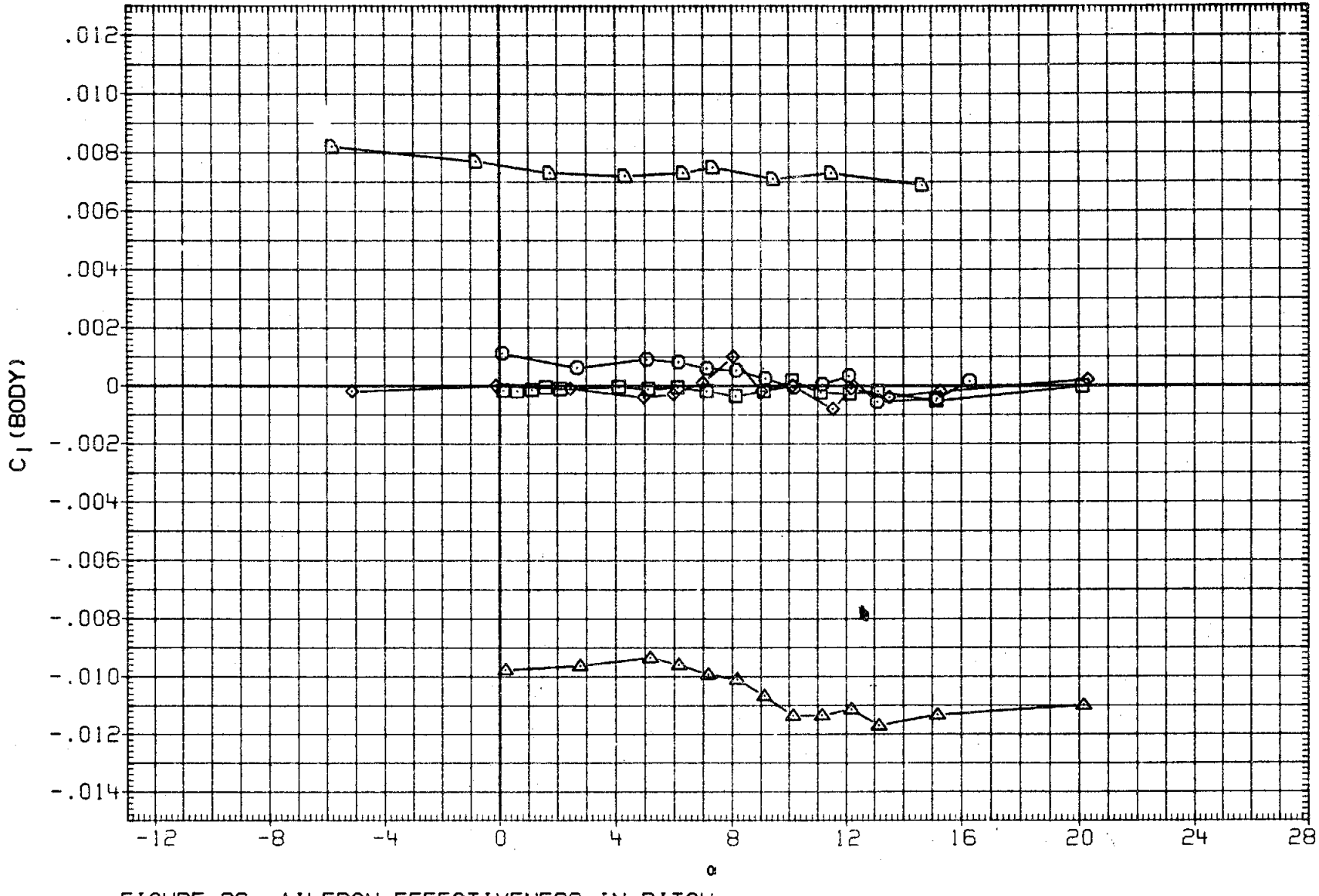

FIGURE 26. AILERON EFFECTIVENESS IN PITCH

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RK0007	△	DATA NOT AVAILABLE	.000	.070	-4.860	.000	25.500	-.030	.000
RKN025	◺	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	3.000	.000	25.000	.000	.000
R2F046	◻	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	

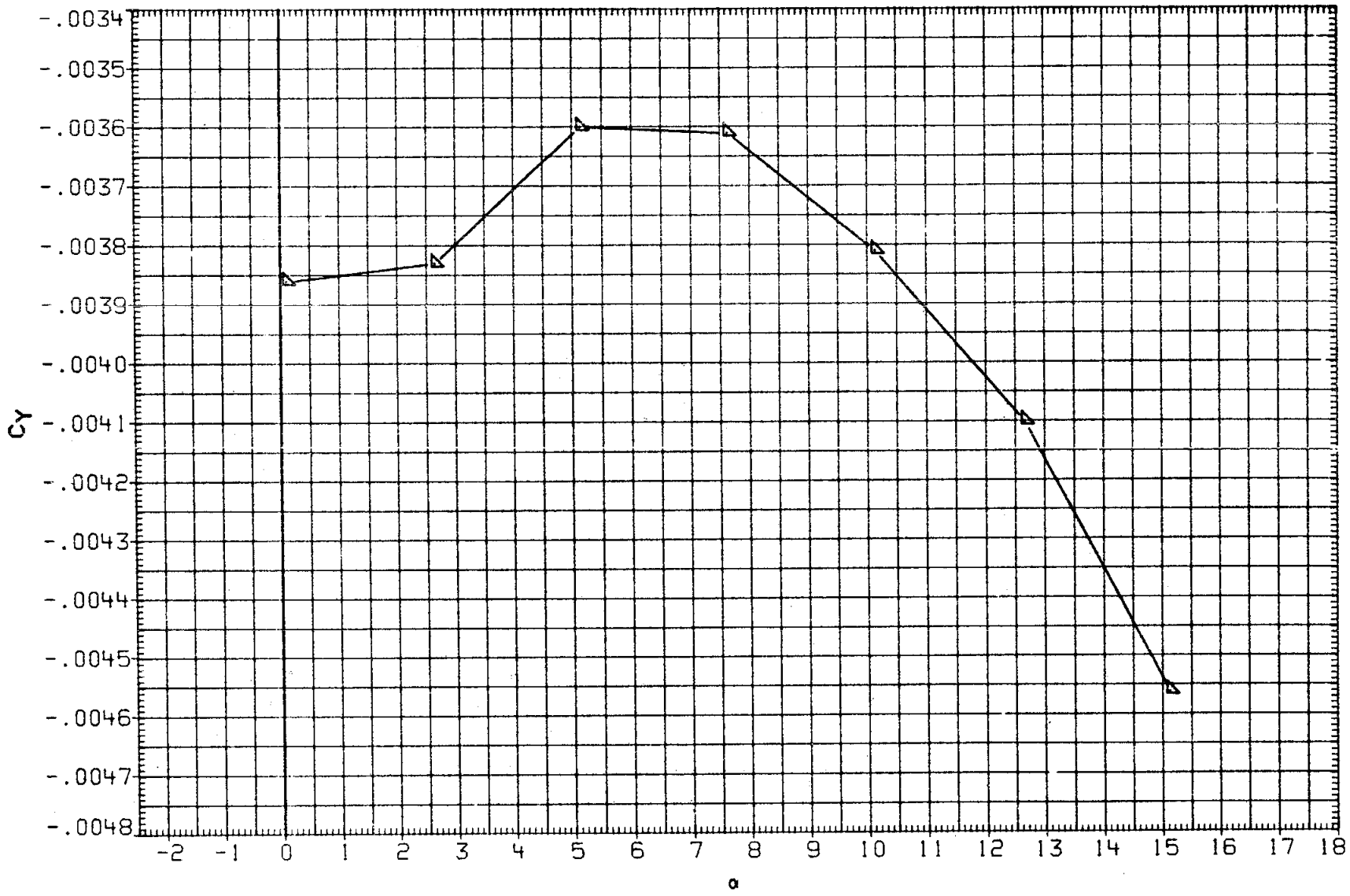

FIGURE 26. AILERON EFFECTIVENESS IN PITCH

(I)MACH = 1.27

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RK0007	△	DATA NOT AVAILABLE	.000	.070	-4.860	.000	25.500	-.030	.000
RKN025	◺	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	3.000	.000	25.000	.000	.000
R2F046	◺	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	

FIGURE 26. AILERON EFFECTIVENESS IN PITCH

(I)MACH = 1.27

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	
RK0007	△	DATA NOT AVAILABLE	.000	.070	-4.860	.000	25.500	-.030	.000
RKN025	◺	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	3.000	.000	25.000	.000	.000
R2F046	D	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	

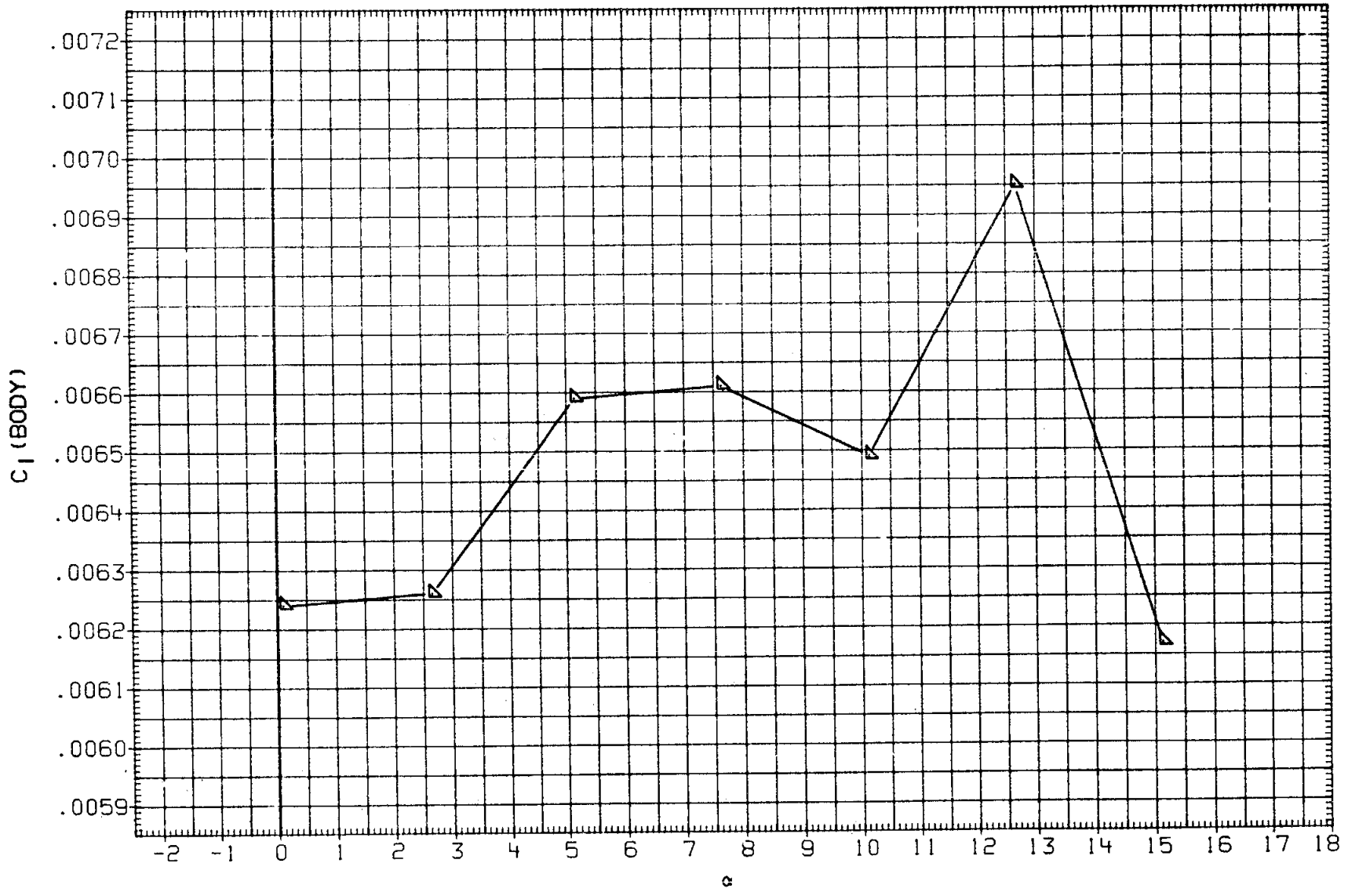

FIGURE 26. AILERON EFFECTIVENESS IN PITCH

(I) MACH = 1.27

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0007	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RKN025	◺	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	.000
R2F046	◻	AMES 118-1-11 OA145A 01	.000	.000	3.000	.000	25.000	.000	

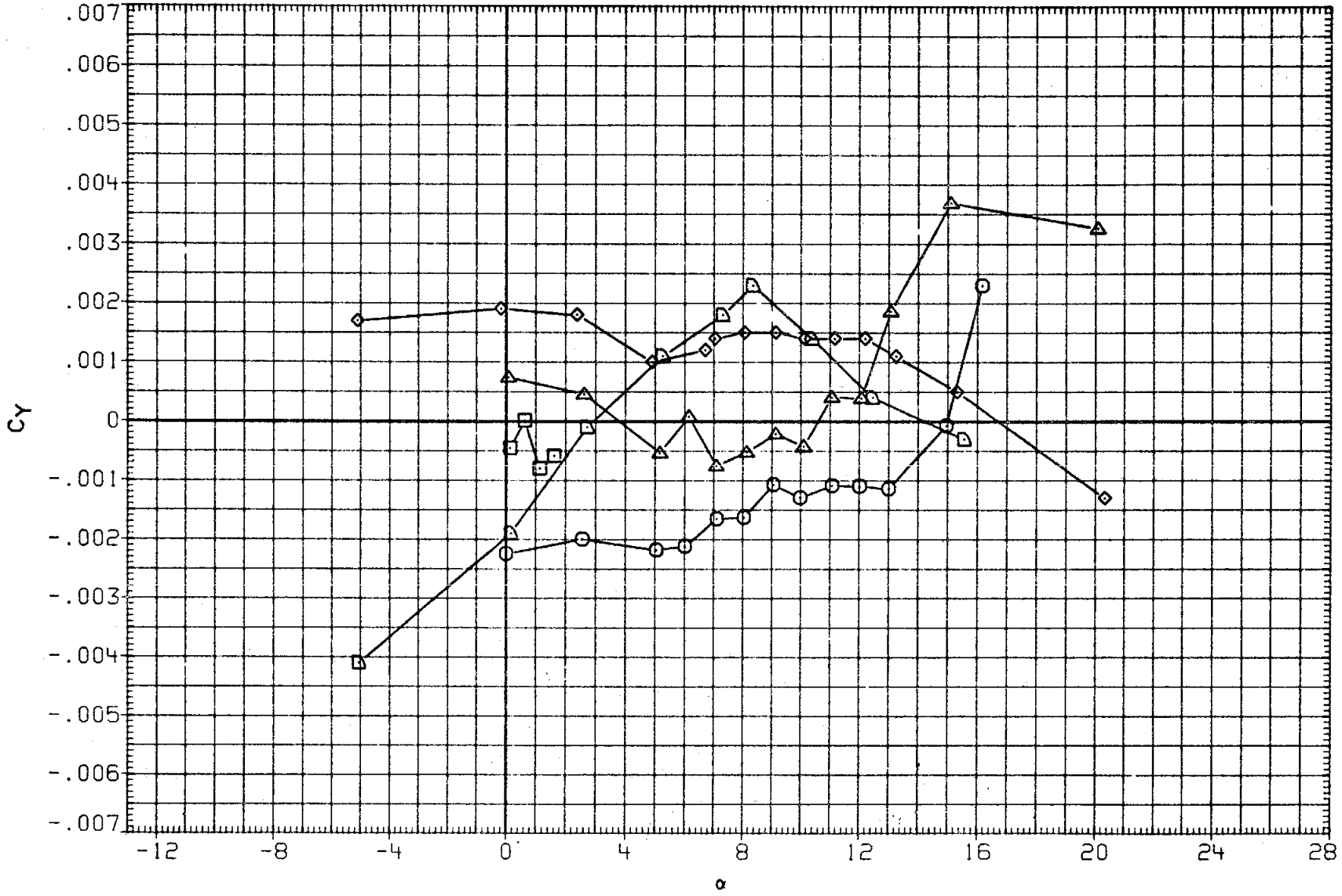

FIGURE 26. AILERON EFFECTIVENESS IN PITCH

(J)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0007	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RKN025	◺	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	.000
R2F046	◻	AMES 118-1-11 OA145A 01	.000	.000	3.000	.000	25.000	.000	

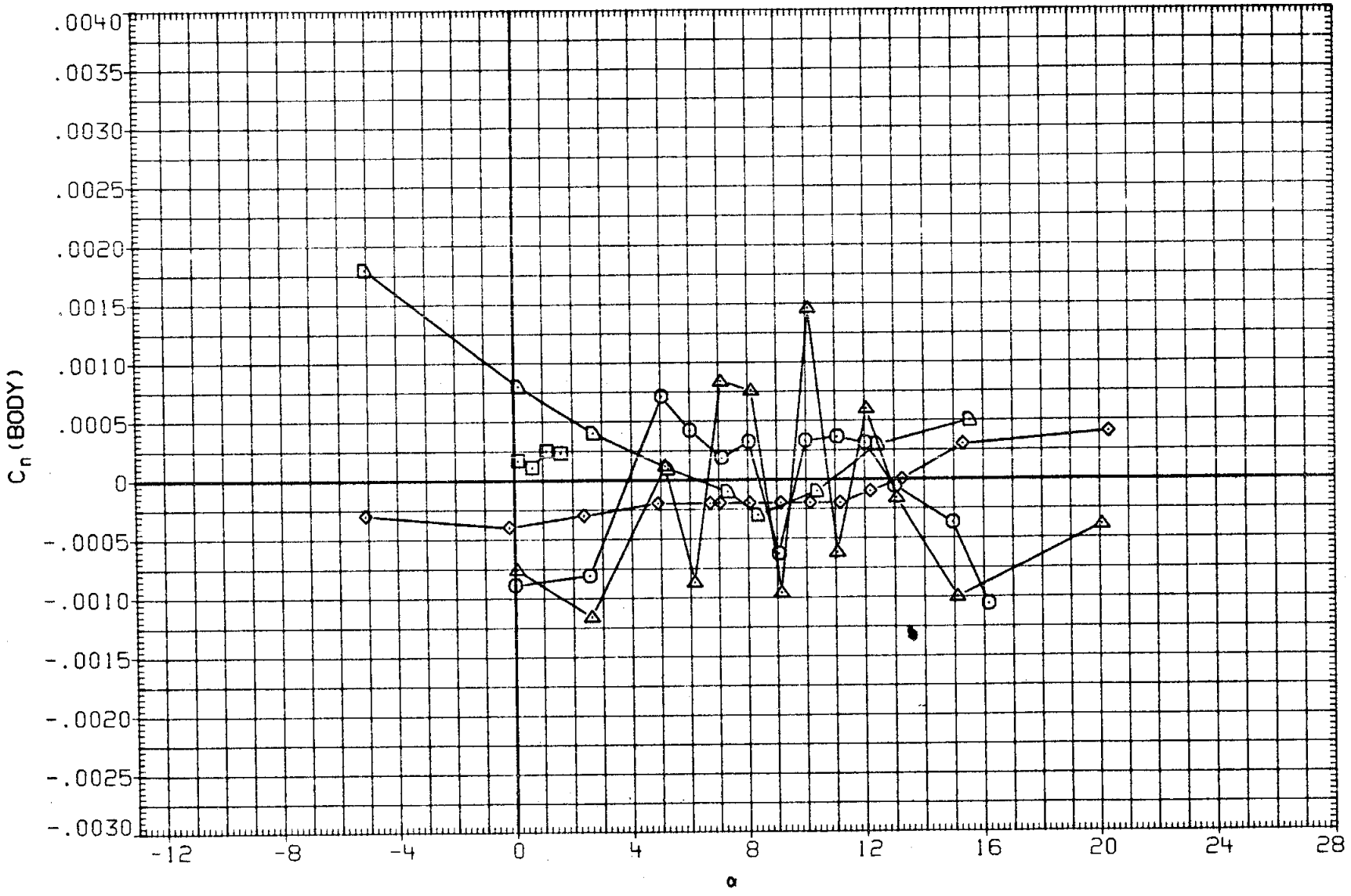

FIGURE 26. AILERON EFFECTIVENESS IN PITCH

(J)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 0A145A 01	.000	.000	.000	.000	25.000	.000	
RK0007	△	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RKN025	◺	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	.000
R2F046	◺	AMES 118-1-11 0A145A 01	.000	.000	3.000	.000	25.000	.000	

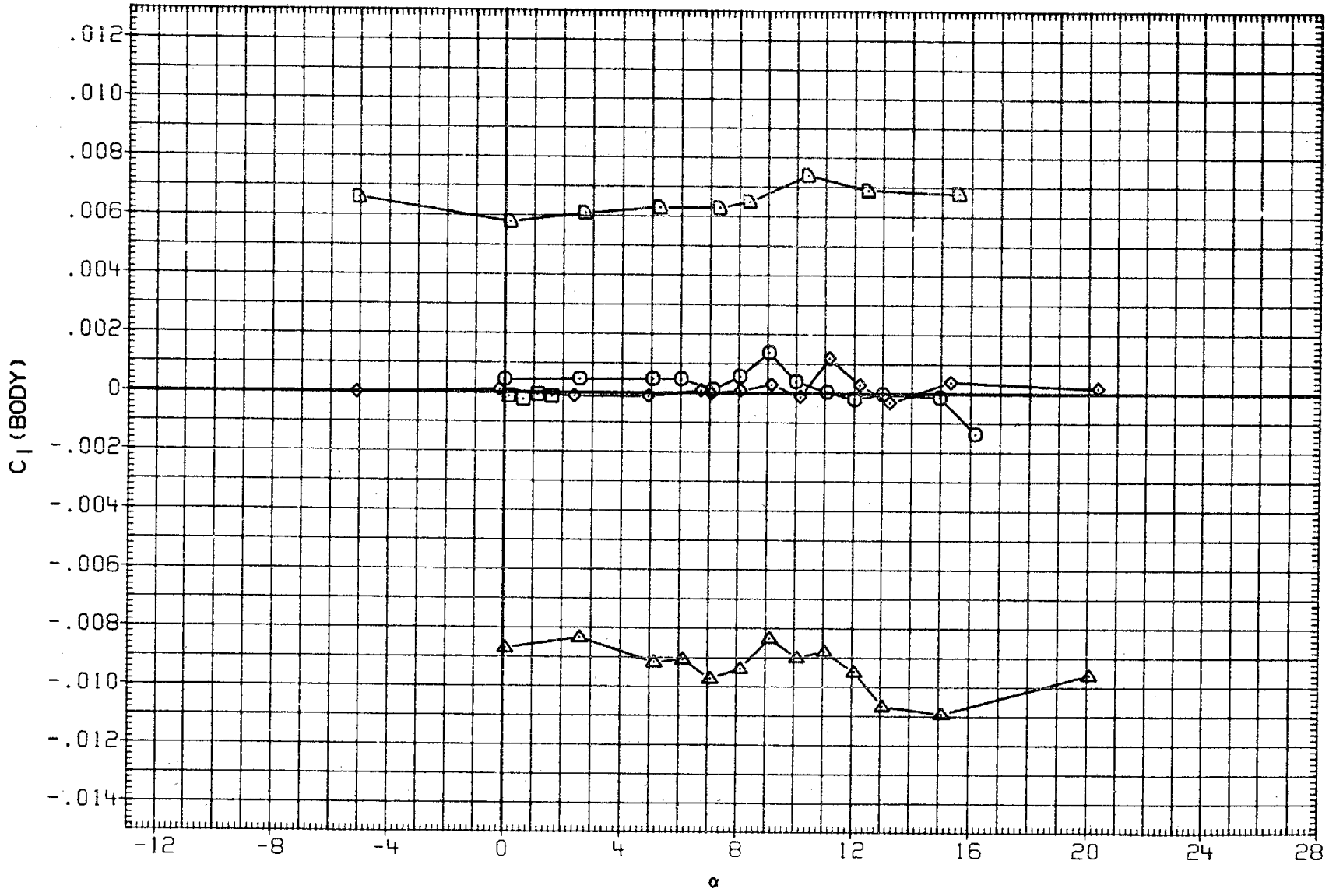

FIGURE 26. AILERON EFFECTIVENESS IN PITCH

(J) MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0007	△	DATA NOT AVAILABLE	.000	.070	-4.860	.000	25.500	-.030	.000
RKN025	◺	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	.000
R2F046	D	AMES 118-1-11 OA145A 01	.000	.000	3.000	.000	25.000	.000	

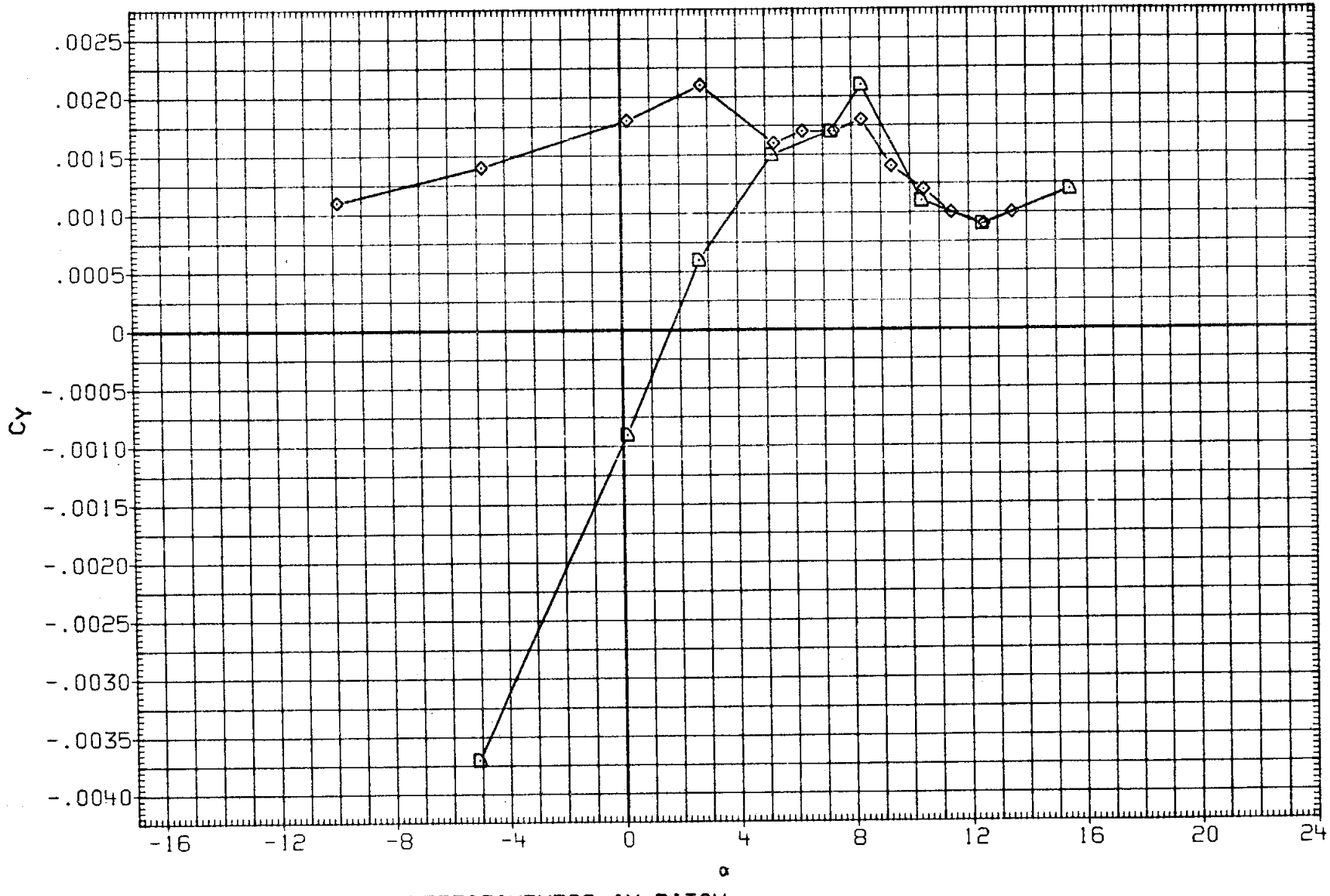

FIGURE 26. AILERON EFFECTIVENESS IN PITCH

(K)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0007	△	DATA NOT AVAILABLE	.000	.070	-4.860	.000	25.500	-.030	.000
RKN025	◁	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	.000
R2F046	D	AMES 118-1-11 OA145A 01	.000	.000	3.000	.000	25.000	.000	

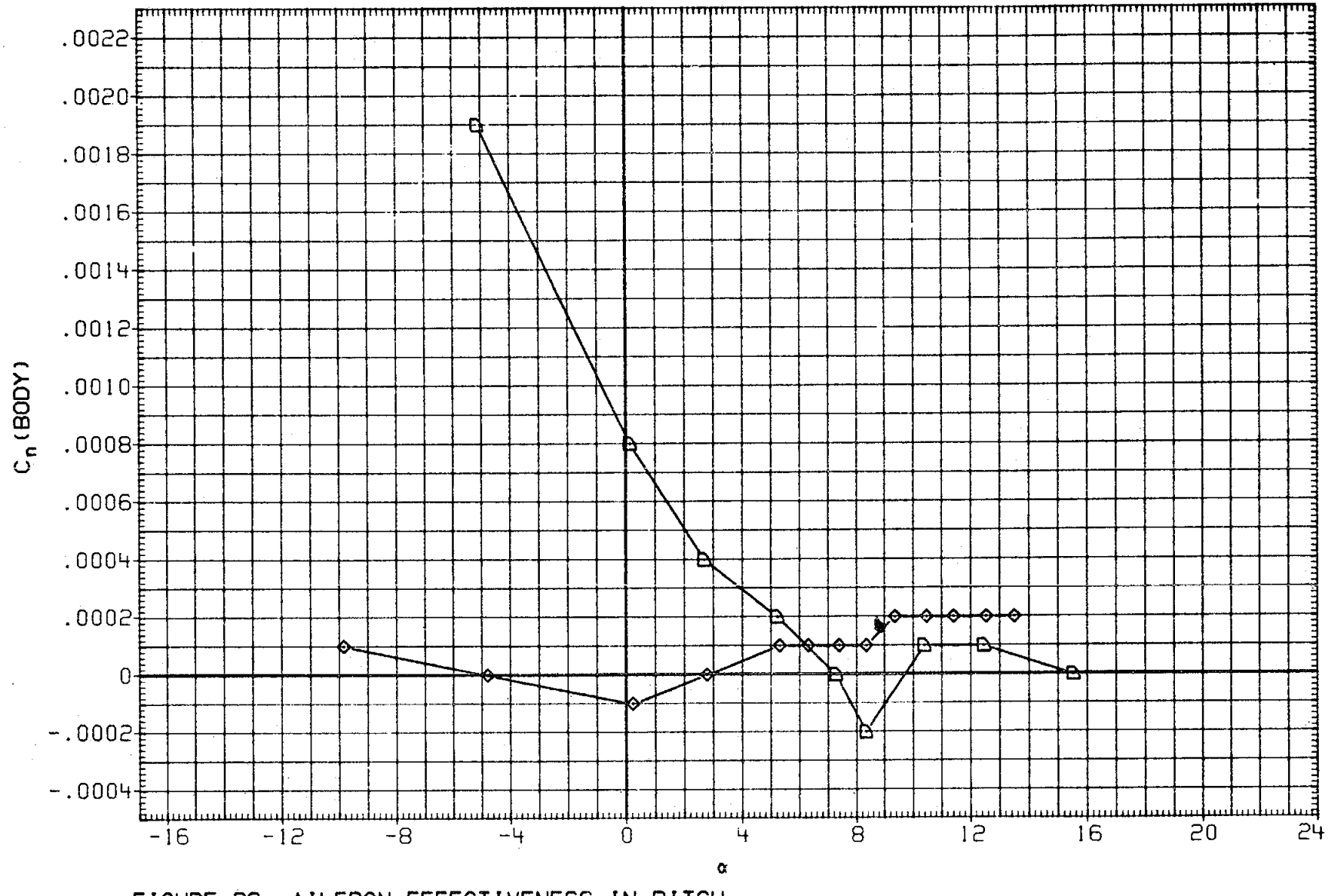

FIGURE 26. AILERON EFFECTIVENESS IN PITCH

(K)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
R2F012	◇	AMES 118-1-11 OA145A 01	.000	.000	.000	.000	25.000	.000	
RK0007	△	DATA NOT AVAILABLE	.000	.070	-4.860	.000	25.500	-.030	.000
RKN025	◺	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	.000
R2F046	◺	AMES 118-1-11 OA145A 01	.000	.000	3.000	.000	25.000	.000	

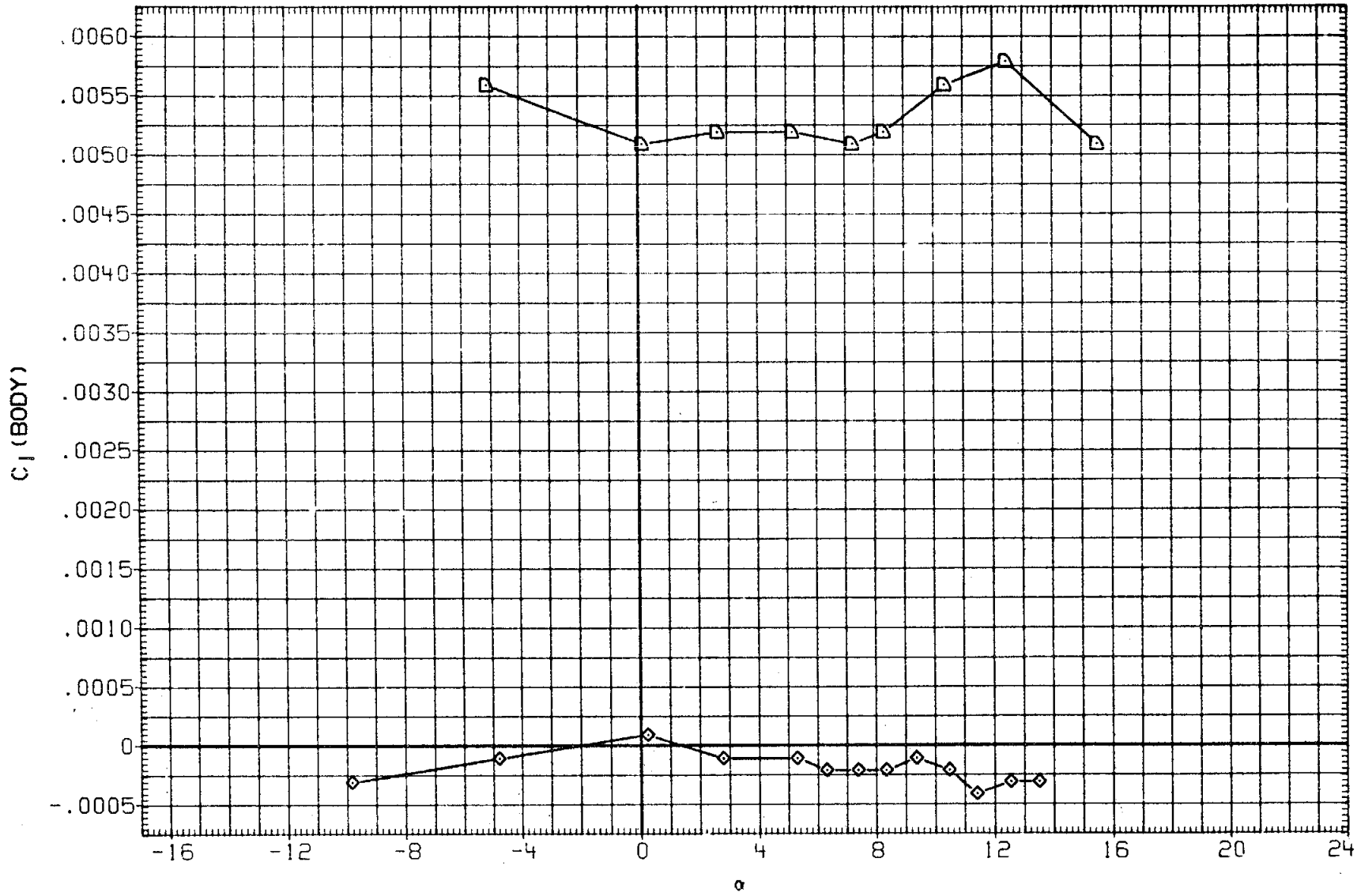

FIGURE 26. AILERON EFFECTIVENESS IN PITCH

(K)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	ELEVON	BDFLAP	SPDBRK	RUDDER	PHI
RKN038	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000
R2F048	□	AMES 118-1-11 OA145A 01(-TO+)	5.000	.000	.000	.000	25.000	.000	
R2F049	◇	AMES 118-1-11 OA145A 01(+TO-)	5.000	.000	.000	.000	25.000	.000	

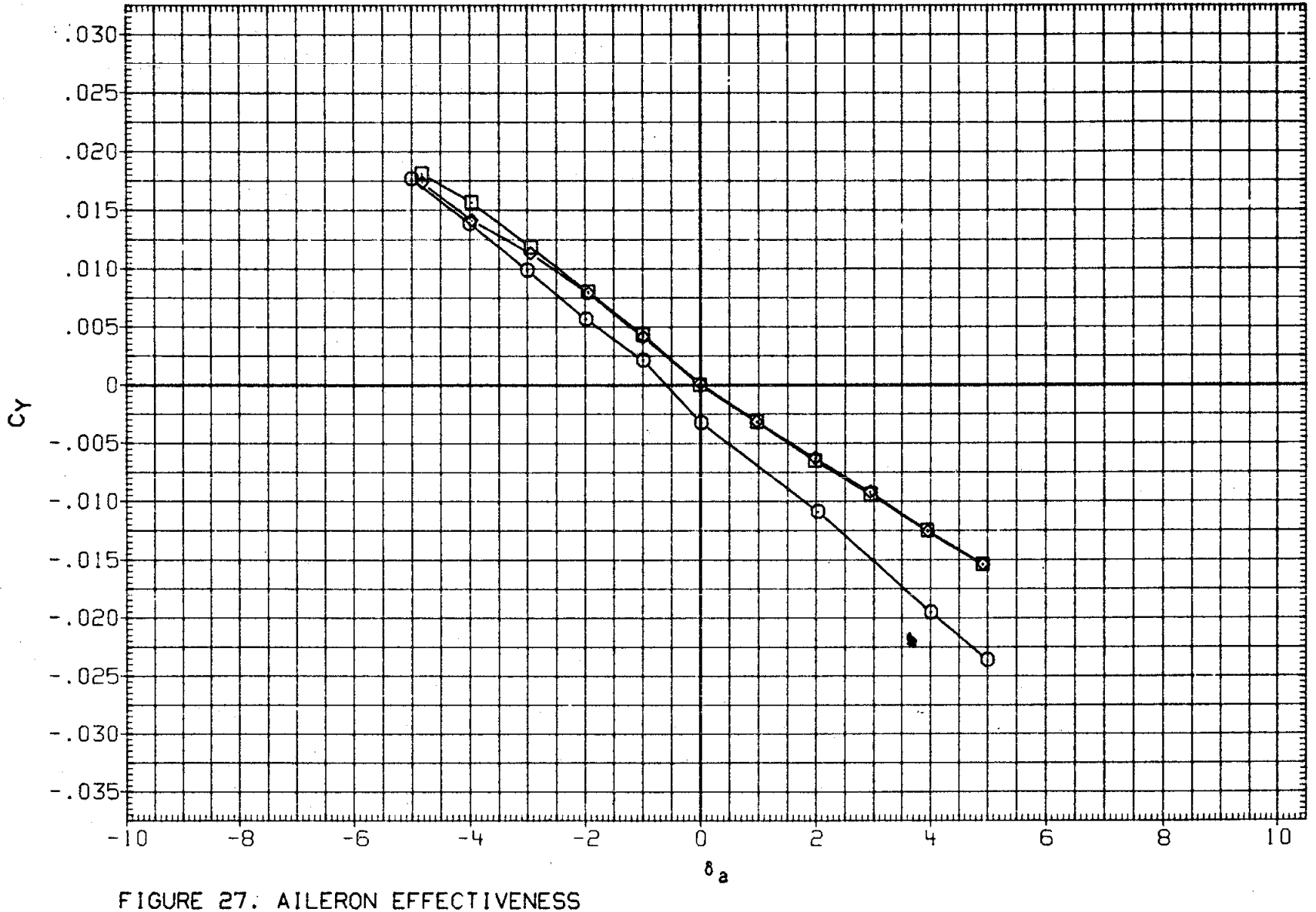

FIGURE 27. AILERON EFFECTIVENESS

(A)MACH = .61

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	ELEVON	BDFLAP	SPDBRK	RUDDER	PHI
RKN038	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000
R2F048	□	AMES 118-1-11 OA145A 01(-TO+)	5.000	.000	.000	.000	25.000	.000	
R2F049	◇	AMES 118-1-11 OA145A 01(+TO-)	5.000	.000	.000	.000	25.000	.000	

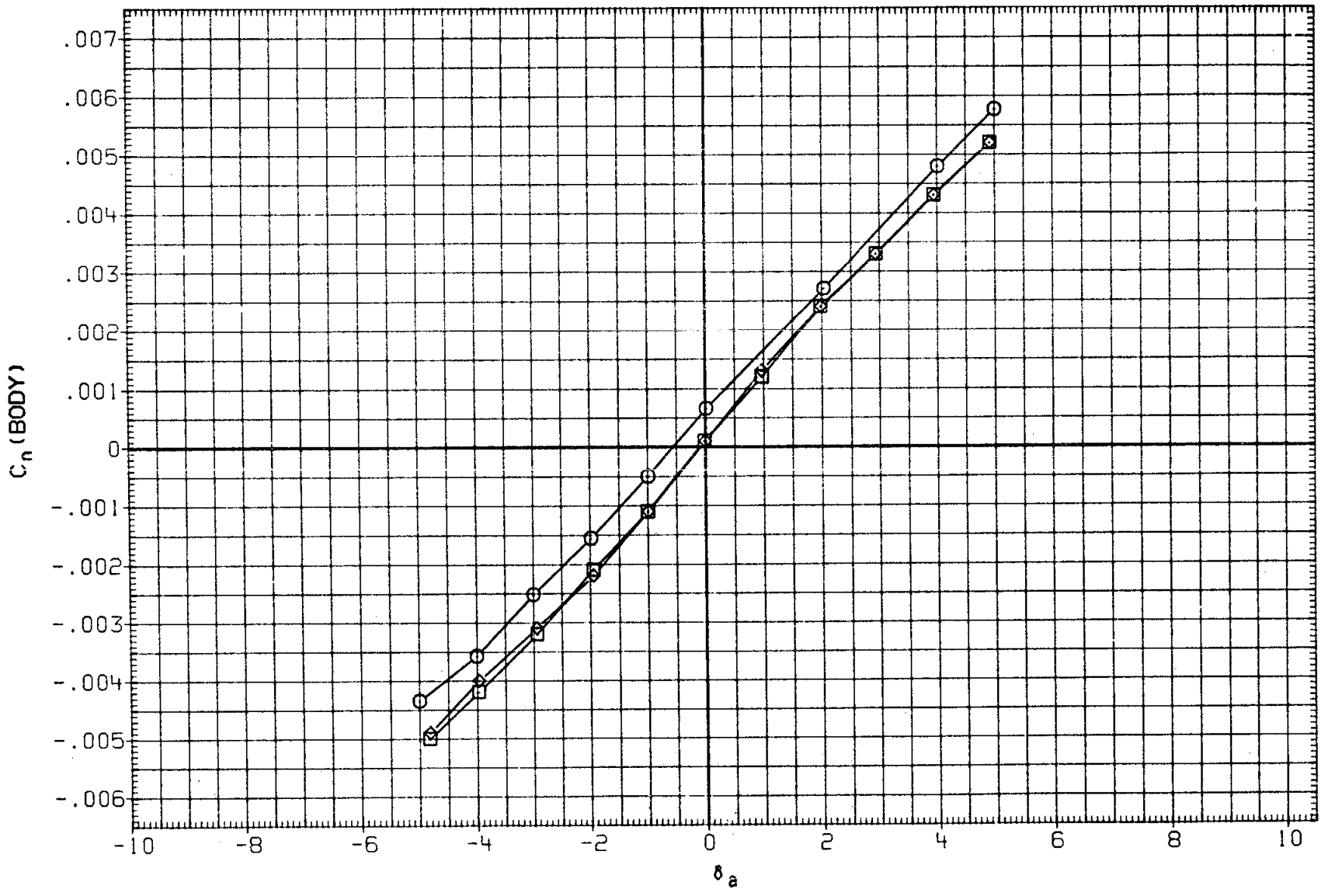

FIGURE 27. AILERON EFFECTIVENESS

(A)MACH = .61

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	ELEVON	BDFLAP	SPDBRK	RUDDER	PHI
RKN038	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000
R2F048	□	AMES 118-1-11 OA145A 01(-TO+)	5.000	.000	.000	.000	25.000	.000	
R2F049	◇	AMES 118-1-11 OA145A 01(+TO-)	5.000	.000	.000	.000	25.000	.000	

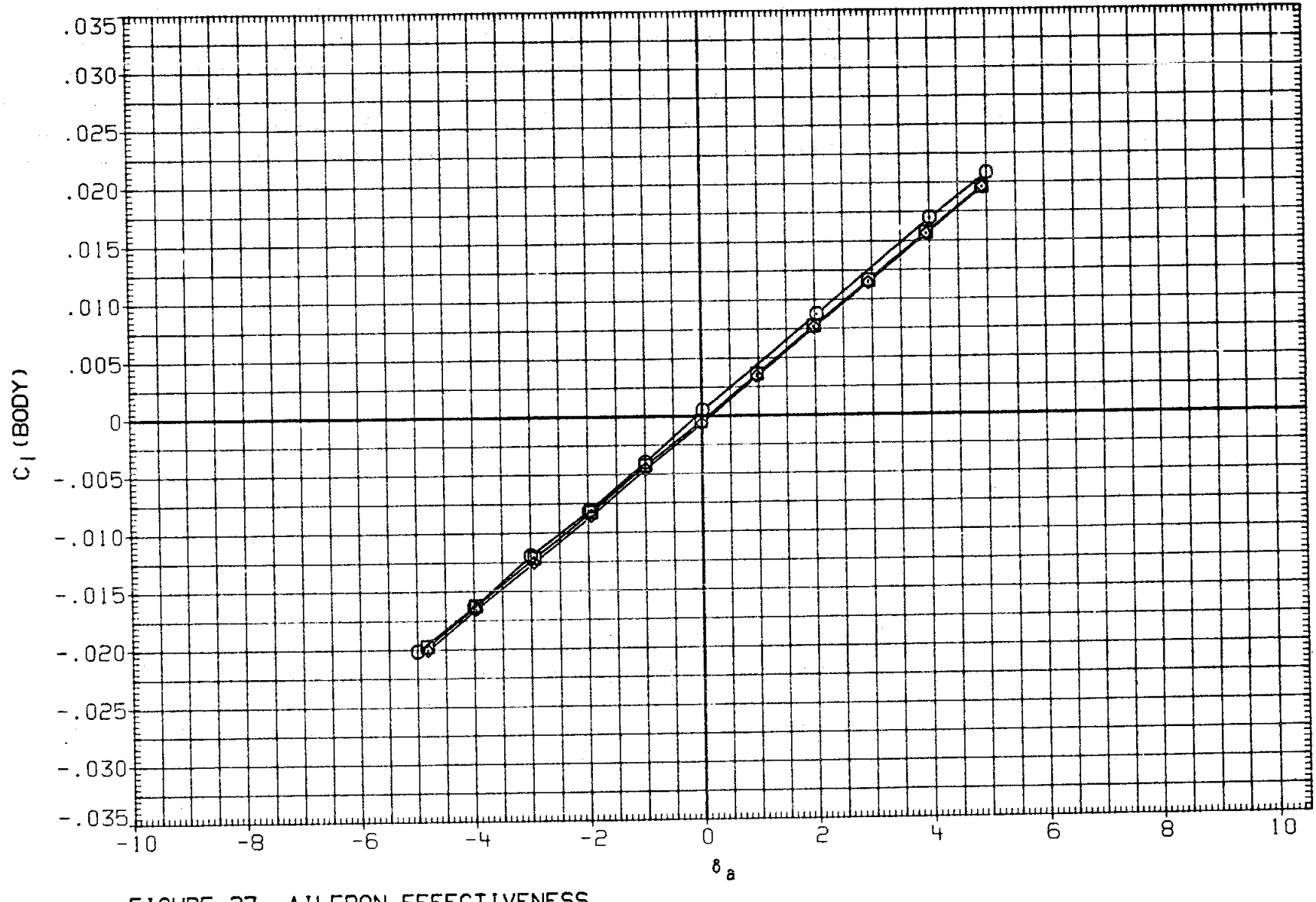

FIGURE 27. AILERON EFFECTIVENESS

(A)MACH = .61

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	ELEVON	BDFLAP	SPDBRK	RUDDER	PHI
RKN038	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000
R2F048	□	AMES 118-1-11 OA145A 01(-TO+)	5.000	.000	.000	.000	25.000	.000	
R2F049	◇	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	

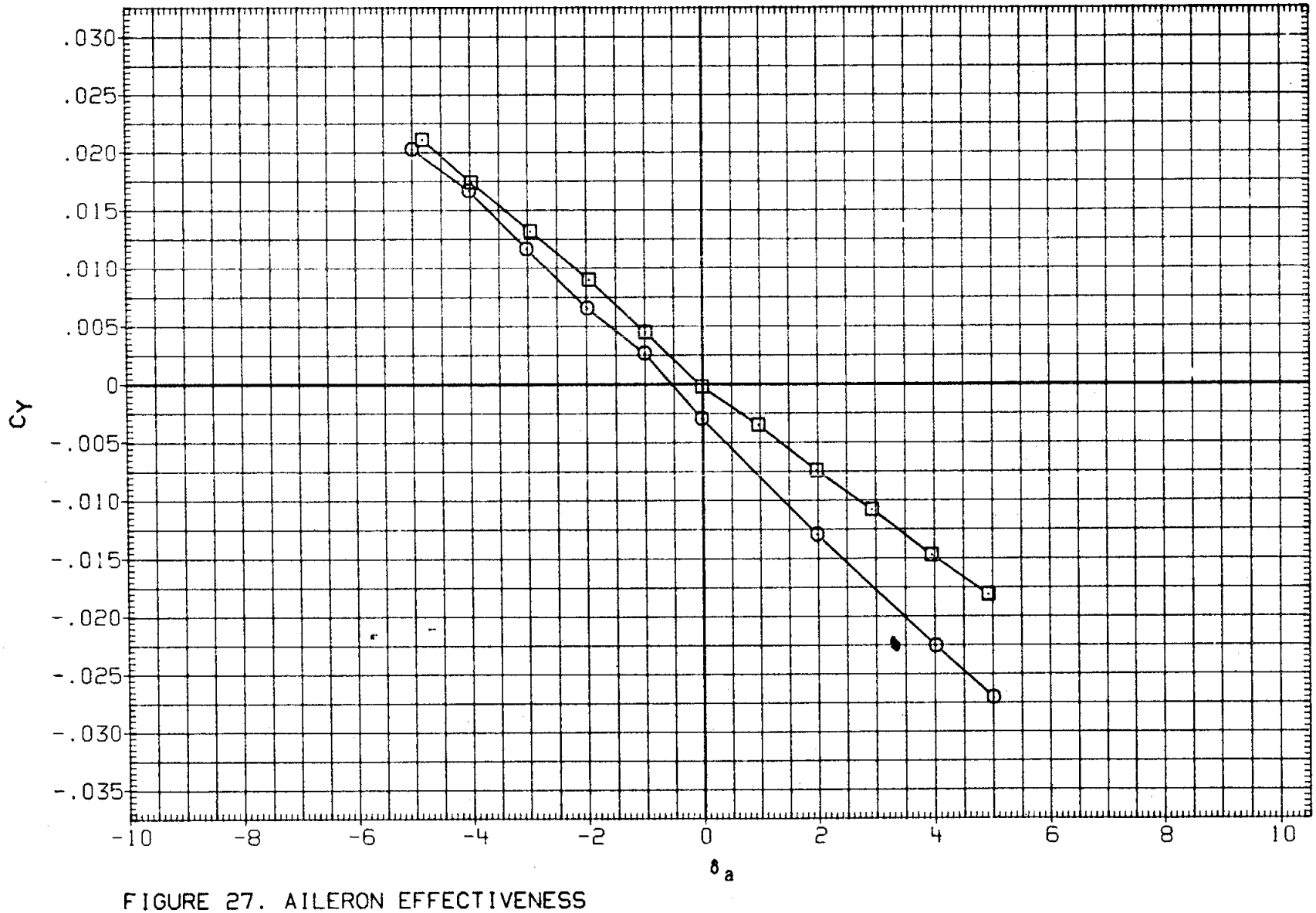

FIGURE 27. AILERON EFFECTIVENESS

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	ELEVON	BDFLAP	SPDBRK	RUDDER	PHI
RKN038	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000
R2F048	□	AMES 118-1-11 OA145A 01(-TO+)	5.000	.000	.000	000	25.000	.000	
R2F049	◇	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	

FIGURE 27. AILERON EFFECTIVENESS

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION
RKN038	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.
R2F048	□	AMES 11B-1-11 OA145A 01(-TO+)
R2F049	◇	DATA NOT AVAILABLE

ALPHA	BETA	ELEVON	BDFLAP	SPDBRK	RUDDER	PHI
5.000	.000	.000	.000	25.000	.000	.000
5.000	.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	25.000	.000	

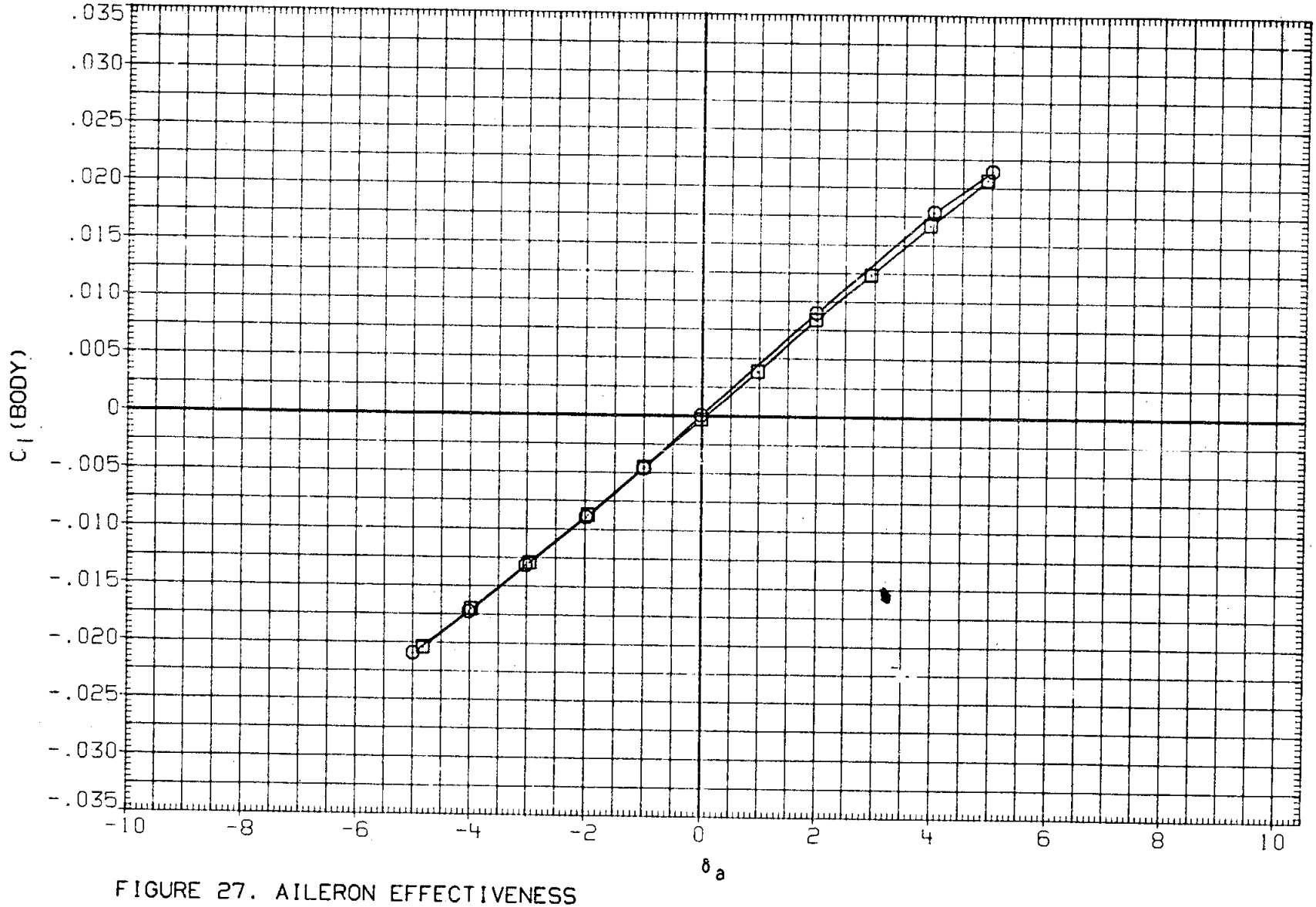

FIGURE 27. AILERON EFFECTIVENESS

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	ELEVON	BDFLAP	SPDBRK	RUDDER	PHI
RKN038	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000
R2F048	□	AMES 118-1-11 OA145A 01(-TO+)	5.000	.000	.000	.000	25.000	.000	
R2F049	◇	AMES 118-1-11 OA145A 01(+TO-)	5.000	.000	.000	.000	25.000	.000	

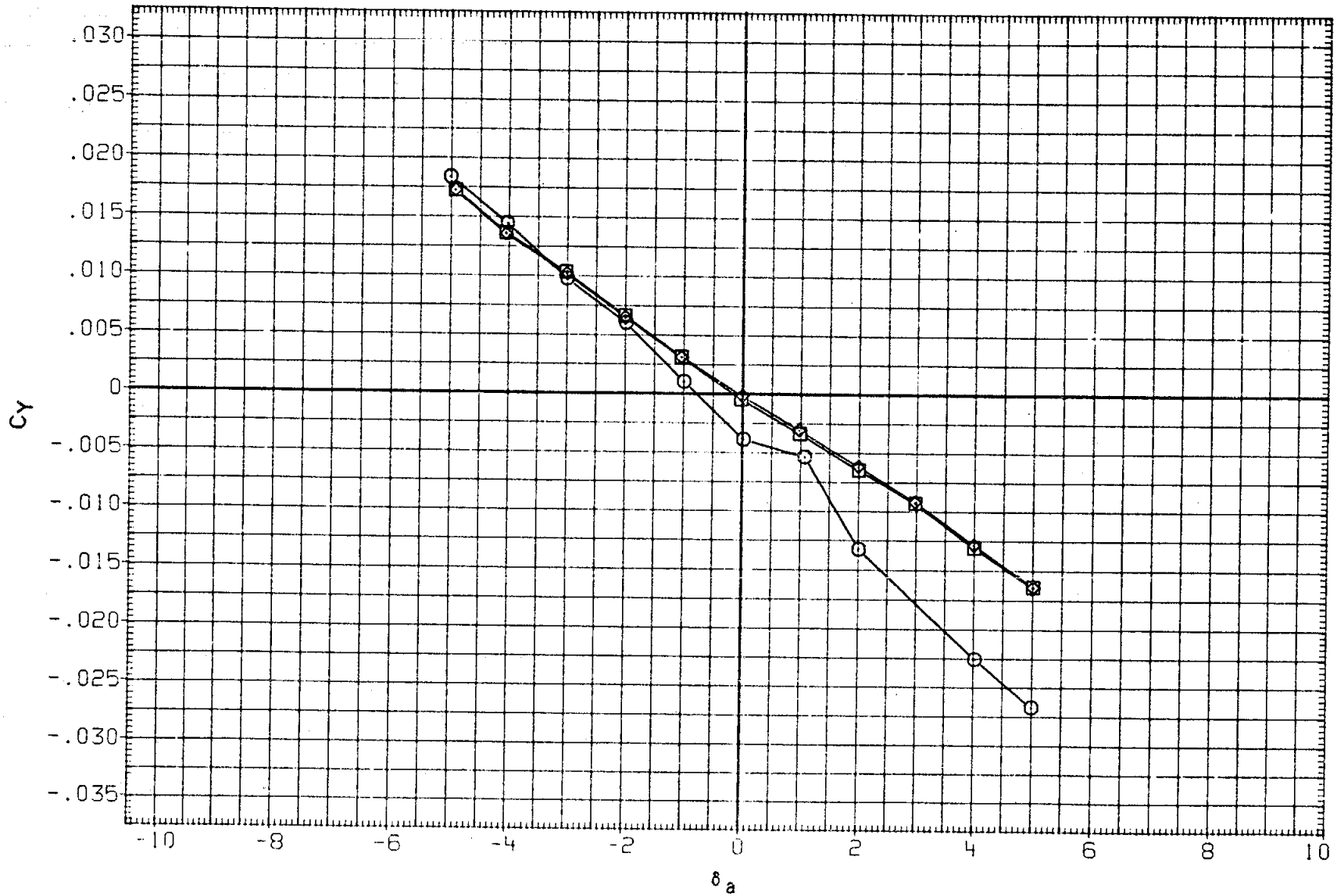

FIGURE 27. AILERON EFFECTIVENESS

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	ELEVON	BDFLAP	SPDBRK	RUDDER	PHI
RKN038	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000
R2F048	□	AMES 118-1-11 OA145A 01(-TO+)	5.000	.000	.000	.000	25.000	.000	
R2F049	◇	AMES 118-1-11 OA145A 01(+TO-)	5.000	.000	.000	.000	25.000	.000	

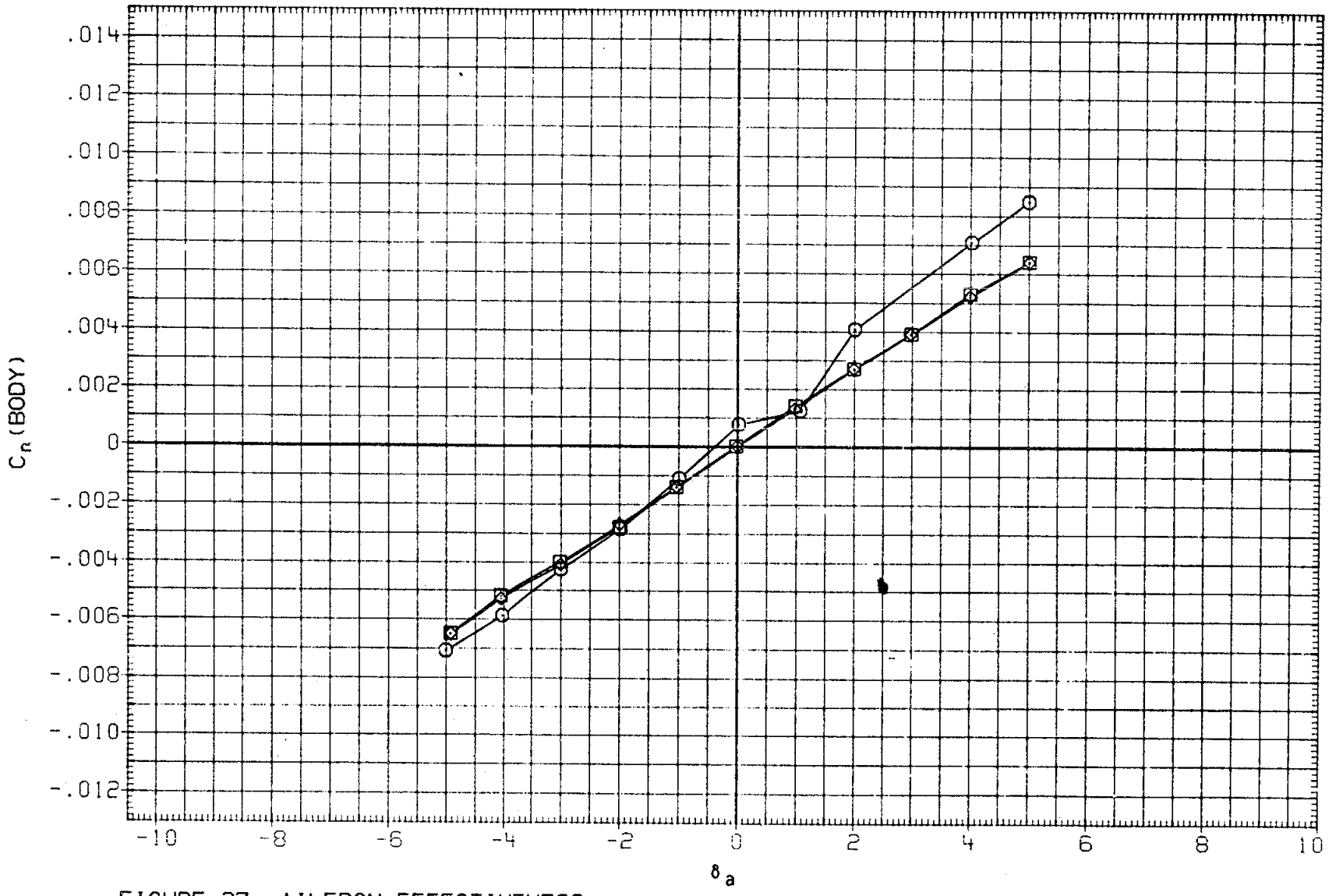

FIGURE 27. AILERON EFFECTIVENESS

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	ELEVON	BDFLAP	SPDBRK	RUDDER	PHI
RKN038	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000
R2F048	□	AMES 118-1-11 OA145A 01(-TO+)	5.000	.000	.000	.000	25.000	.000	
R2F049	◇	AMES 118-1-11 OA145A 01(+TO-)	5.000	.000	.000	.000	25.000	.000	

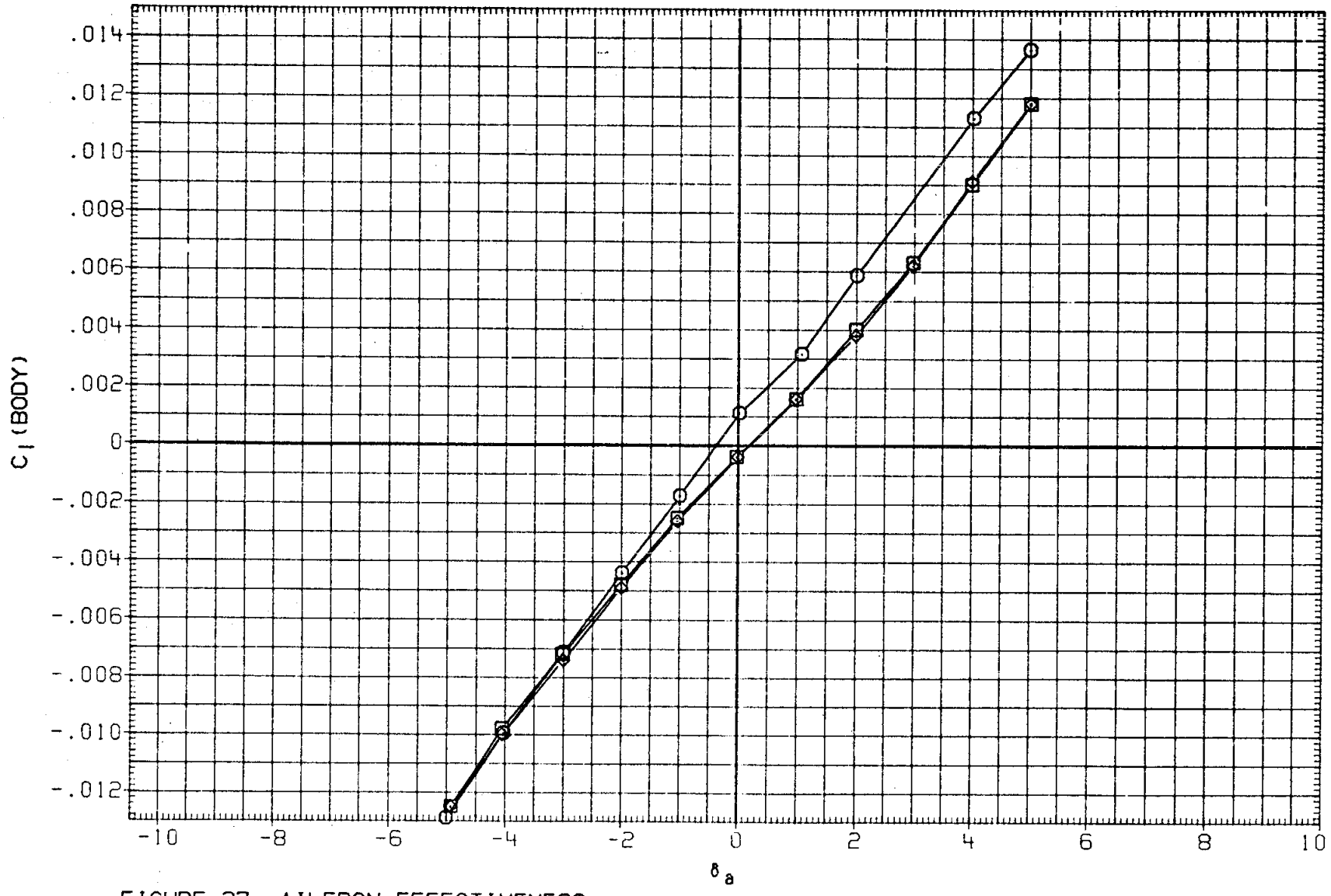

FIGURE 27. AILERON EFFECTIVENESS

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION
RKN038	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.
R2F048	□	AMES 118-1-11 OA145A 011(-10+)
R2F049	◇	DATA NOT AVAILABLE

ALPHA	BETA	ELEVON	BDFLAP	SPDBRK	RUDDER	PHI
5.000	.000	.000	000	25.000	.000	.000
5.000	.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	25.000	.000	

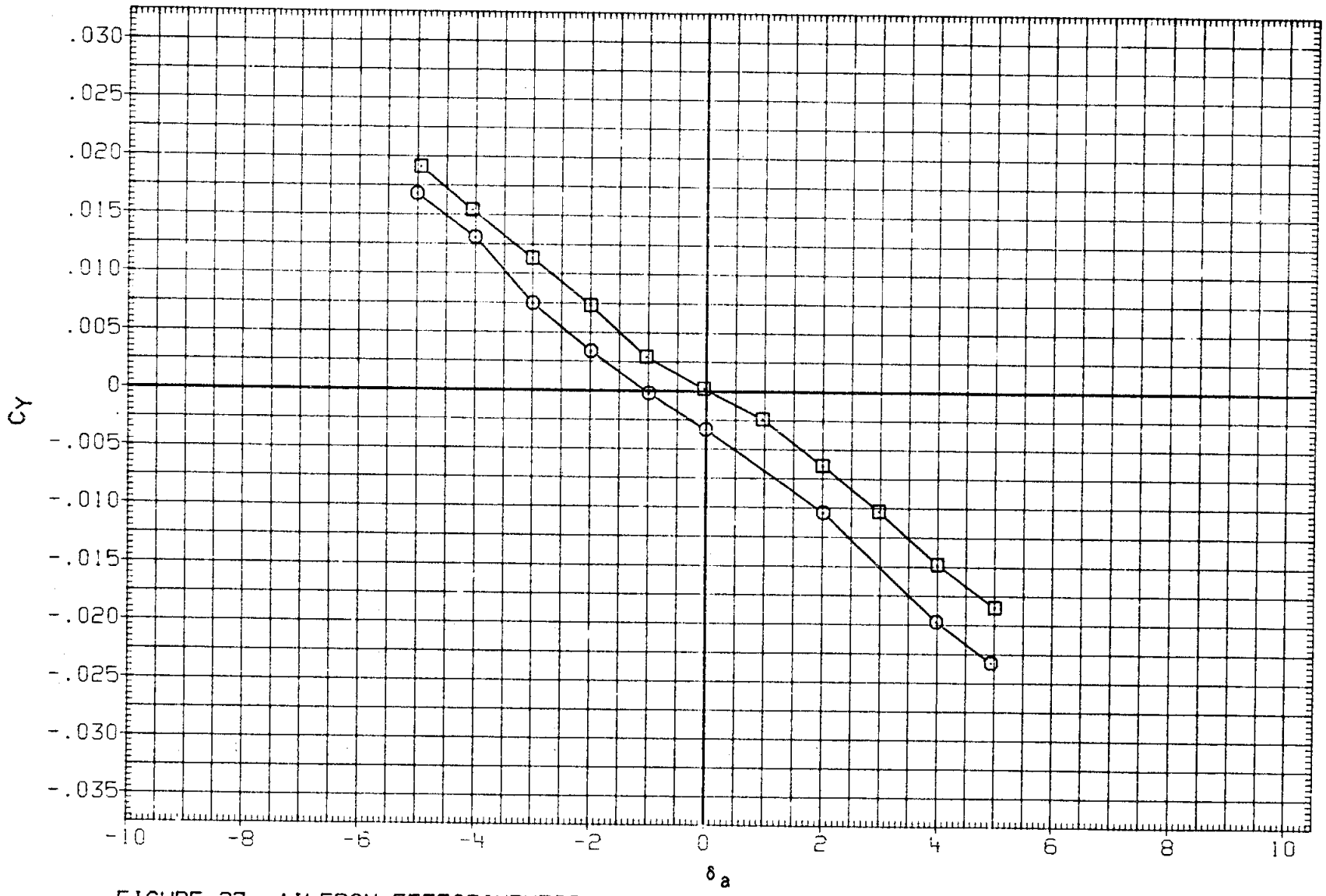

FIGURE 27. AILERON EFFECTIVENESS

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	ELEVON	BDFLAP	SPDBRK	RUDDER	PHI
RKN038	○	LARC 16FT TWT 326(0A270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000
R2F048	□	AMES 118-1-11 0A145A 01(-TO+)	5.000	.000	.000	.000	25.000	.000	
R2F049	◇	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	

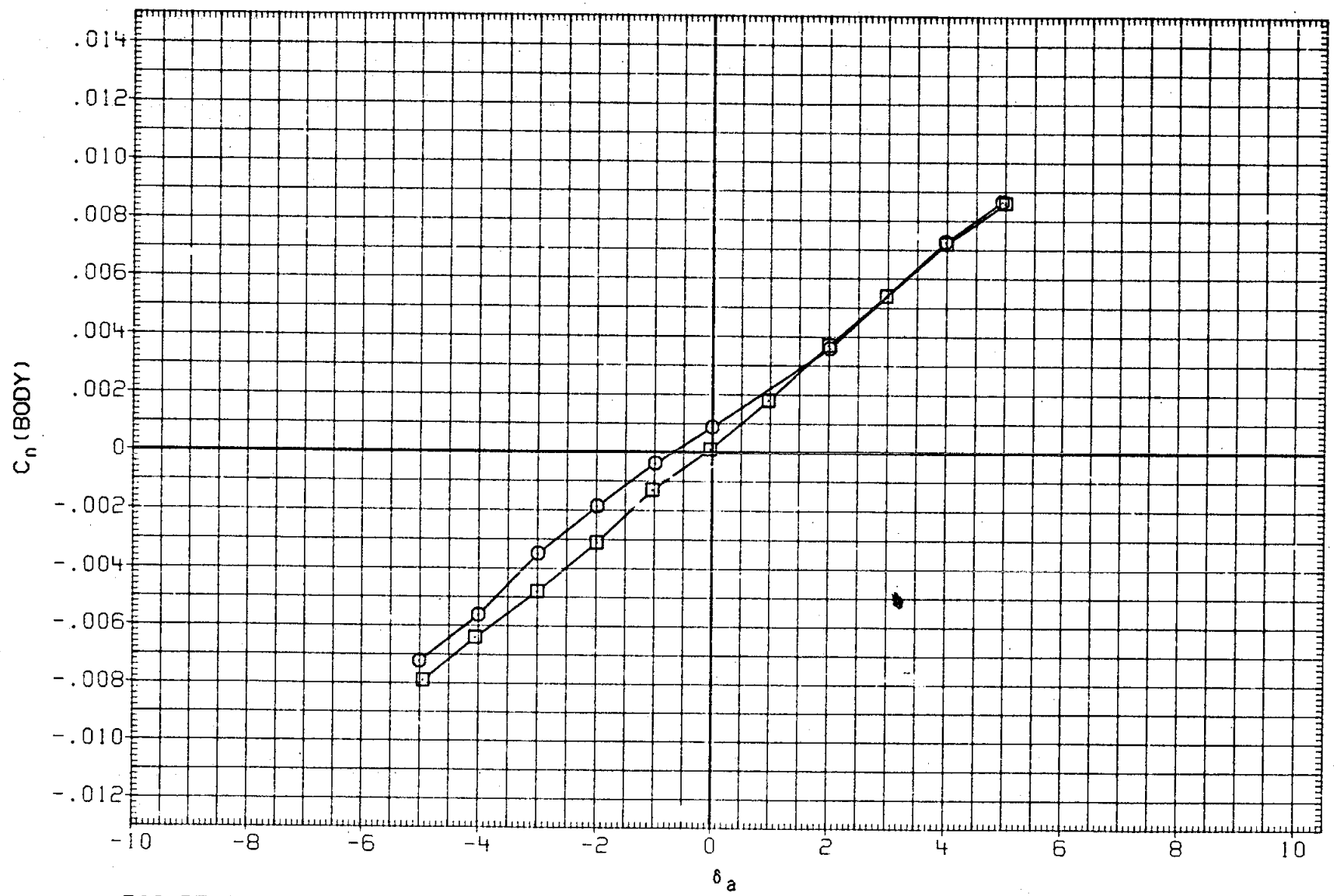

FIGURE 27. AILERON EFFECTIVENESS

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	ELEVON	BDFLAP	SPDBRK	RUDDER	PHI
RKN038	○	LARC 16FT TWT 326(0A270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000
R2F048	□	AMES 118-1-11 0A145A 0!(-TO+)	5.000	.000	.000	.000	25.000	.000	
R2F049	◇	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	

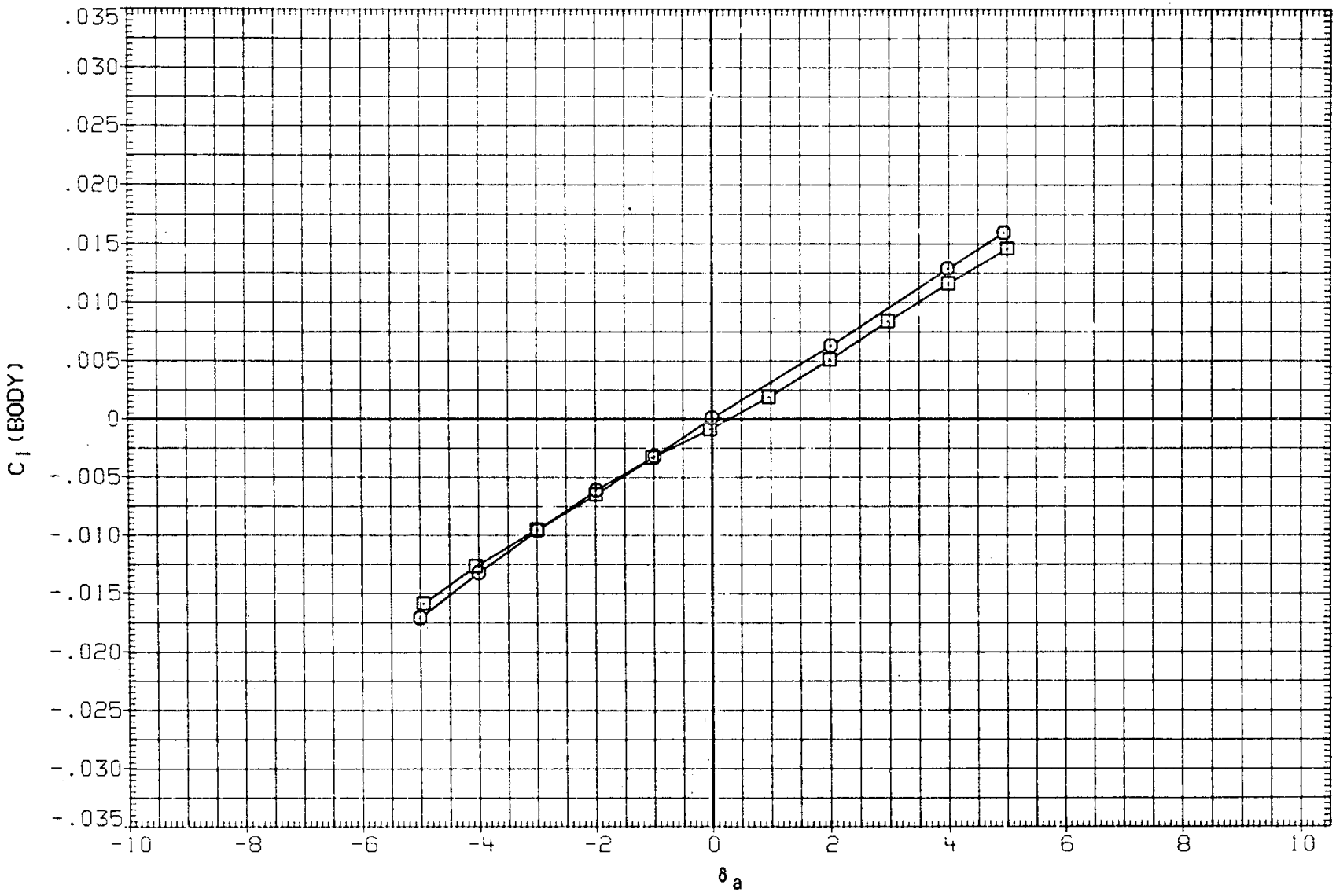

FIGURE 27. AILERON EFFECTIVENESS

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	ELEVON	BDFLAP	SPDBRK	RUDDER	PHI
RKN038	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000
R2F048	□	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
R2F049	◇	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	

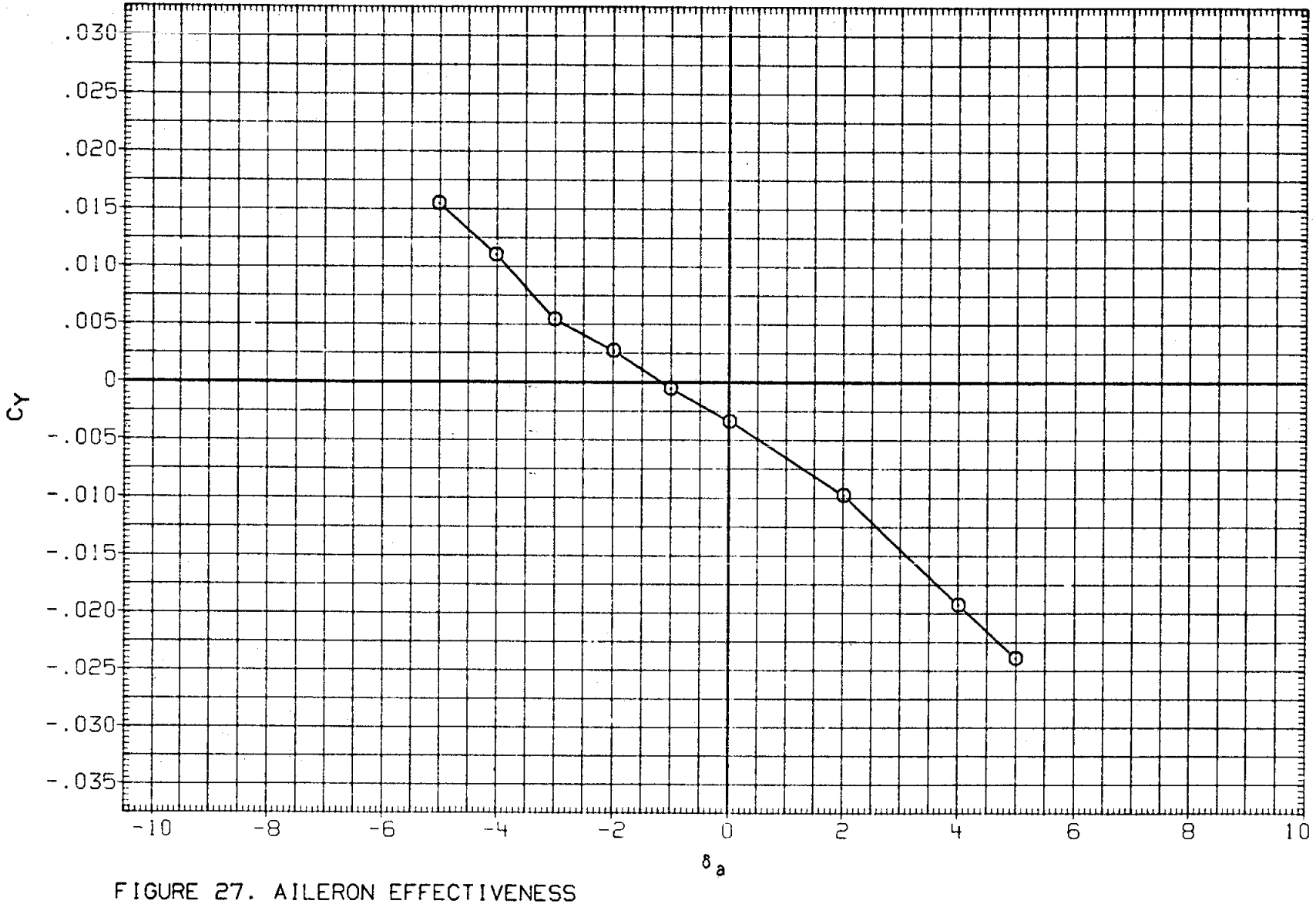

FIGURE 27. AILERON EFFECTIVENESS

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	ELEVON	BDFLAP	SPDBRK	RUDDER	PHI
RKN038	○	LARC 16FT TWT 326(0A270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000
R2F048	□	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
R2F049	◇	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	

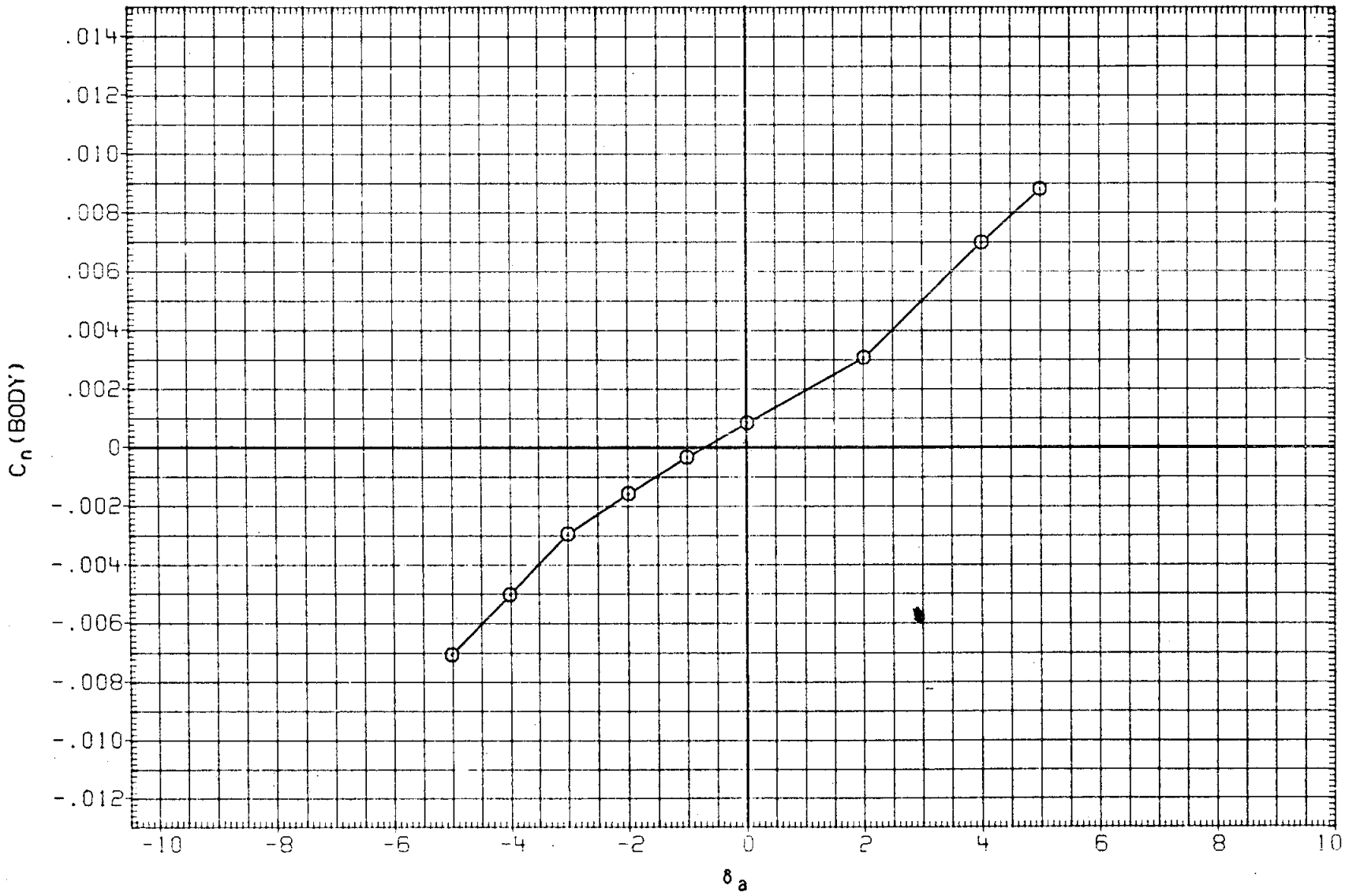

FIGURE 27. AILERON EFFECTIVENESS

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	ELEVON	BDFLAP	SPDBRK	RUDDER	PHI
RKN038	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000
R2F048	□	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
R2F049	◇	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	

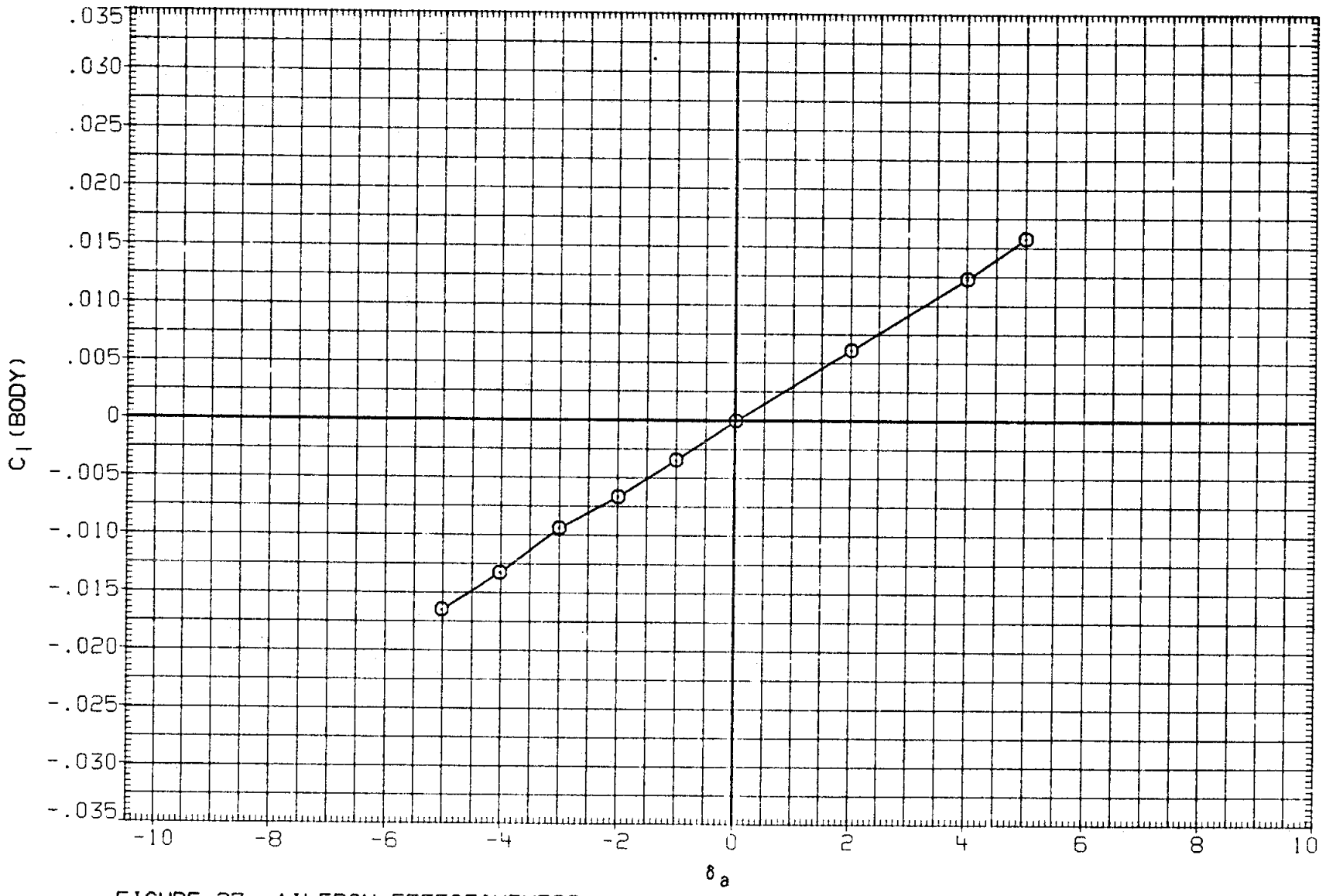

FIGURE 27. AILERON EFFECTIVENESS

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	ELEVON	BDFLAP	SPDBRK	RUDDER	PHI
RKN038	○	LARC 16FT TWT 326(0A270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000
R2F048	□	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
R2F049	◇	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	

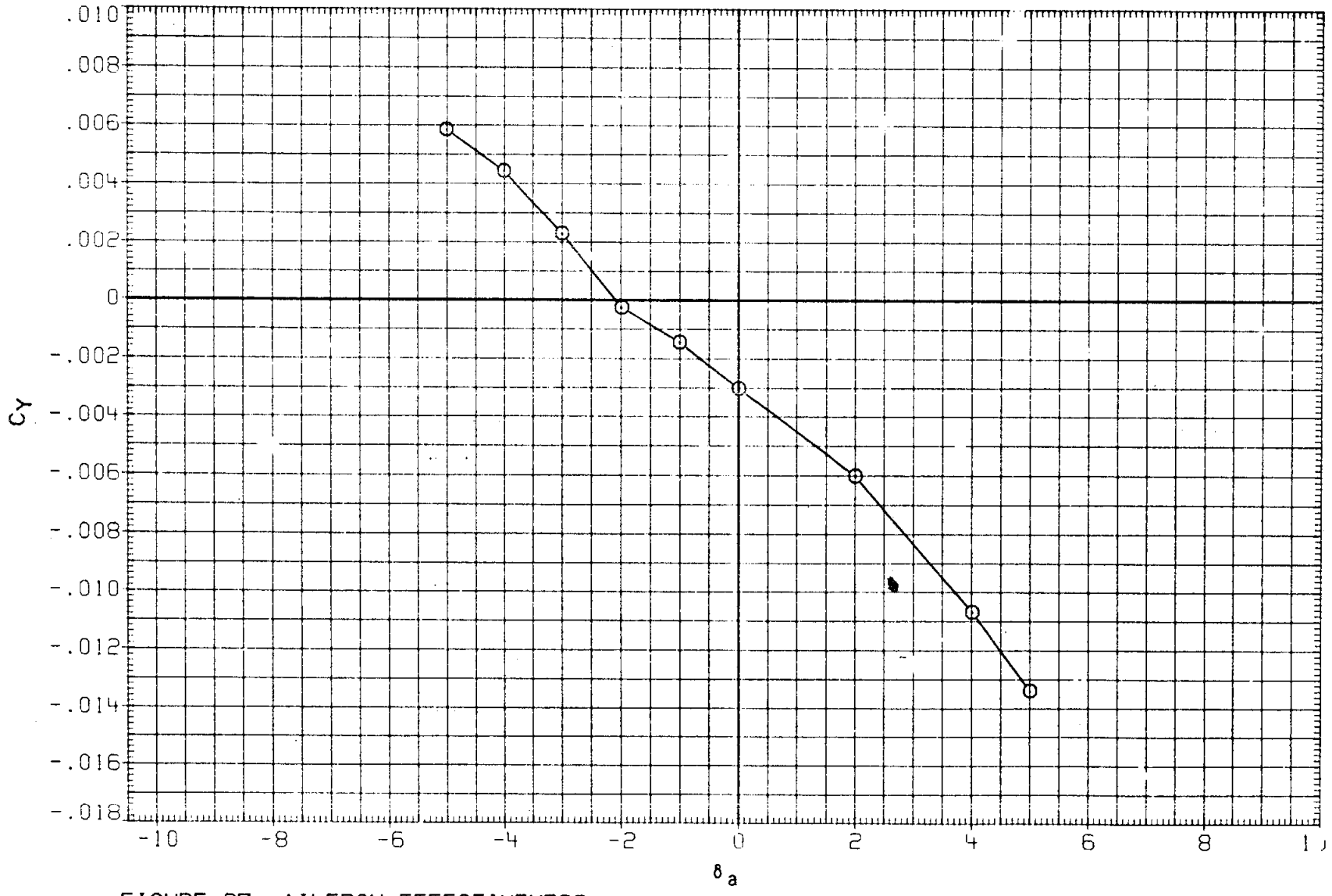

FIGURE 27. AILERON EFFECTIVENESS

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION
RKN038	○	LARC 16FT TWT 3261OA270A1 39-0 ORB.
R2F048	□	DATA NOT AVAILABLE
R2F049	◇	DATA NOT AVAILABLE

ALPHA	BETA	ELEVON	BDFLAP	SPDBRK	RUDDER	PHI
5.000	.000	.000	.000	25.000	.000	.000
5.000	.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	25.000	.000	

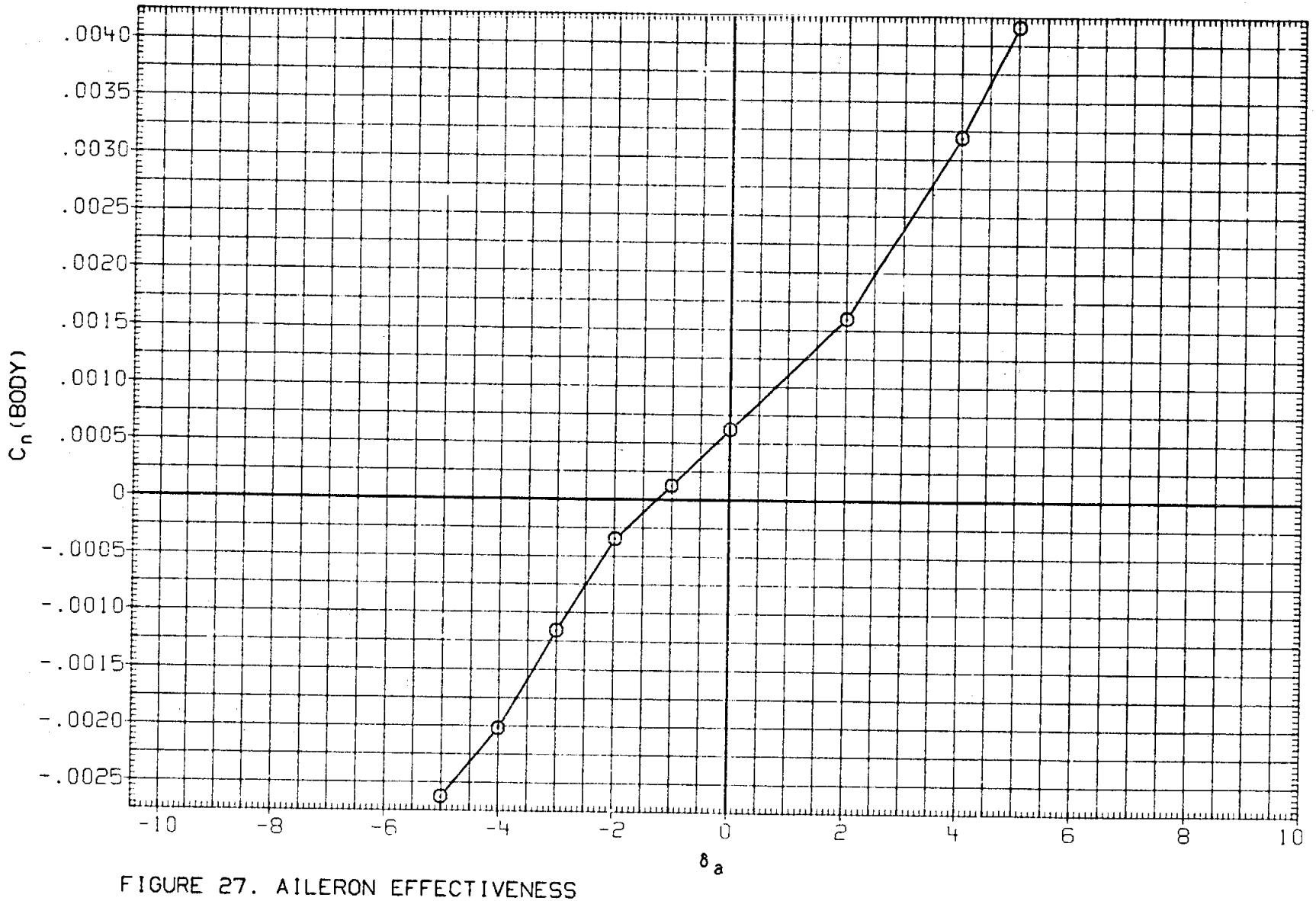

FIGURE 27. AILERON EFFECTIVENESS

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	ELEVON	BDFLAP	SPDBRK	RUDDER	PHI
RKN038	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000
R2F048	□	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	
R2F049	◇	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	

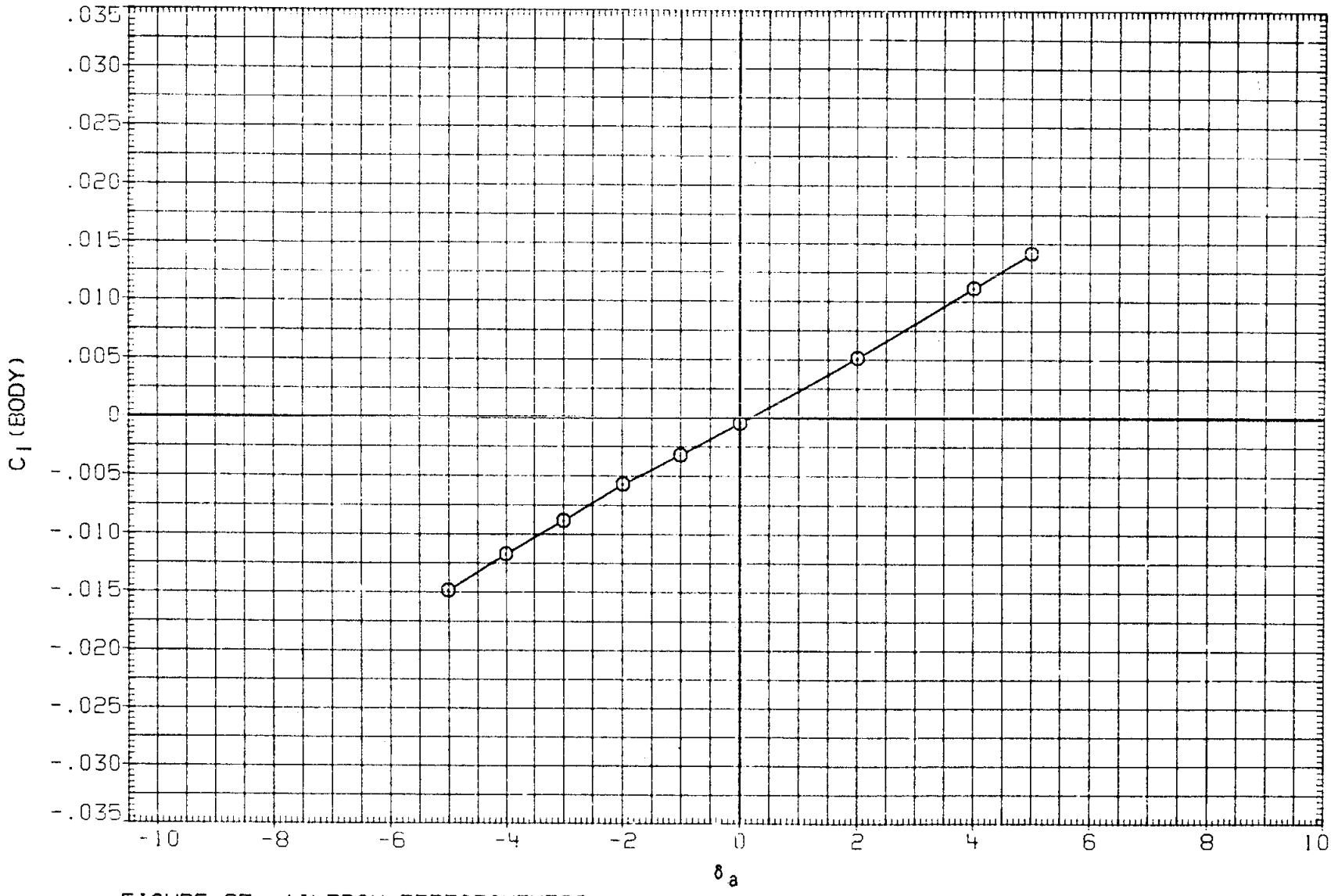

FIGURE 27. AILERON EFFECTIVENESS

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION
RKN038	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.
R2F048	□	AMES 118-I-II CA145A 01(-TO+)
R2F049	◇	DATA NOT AVAILABLE

ALPHA	BETA	ELEVON	BDFLAP	SPDBRK	RUDDER	PHI
5.000	.000	.000	.000	25.000	.000	.000
5.000	.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	25.000	.000	

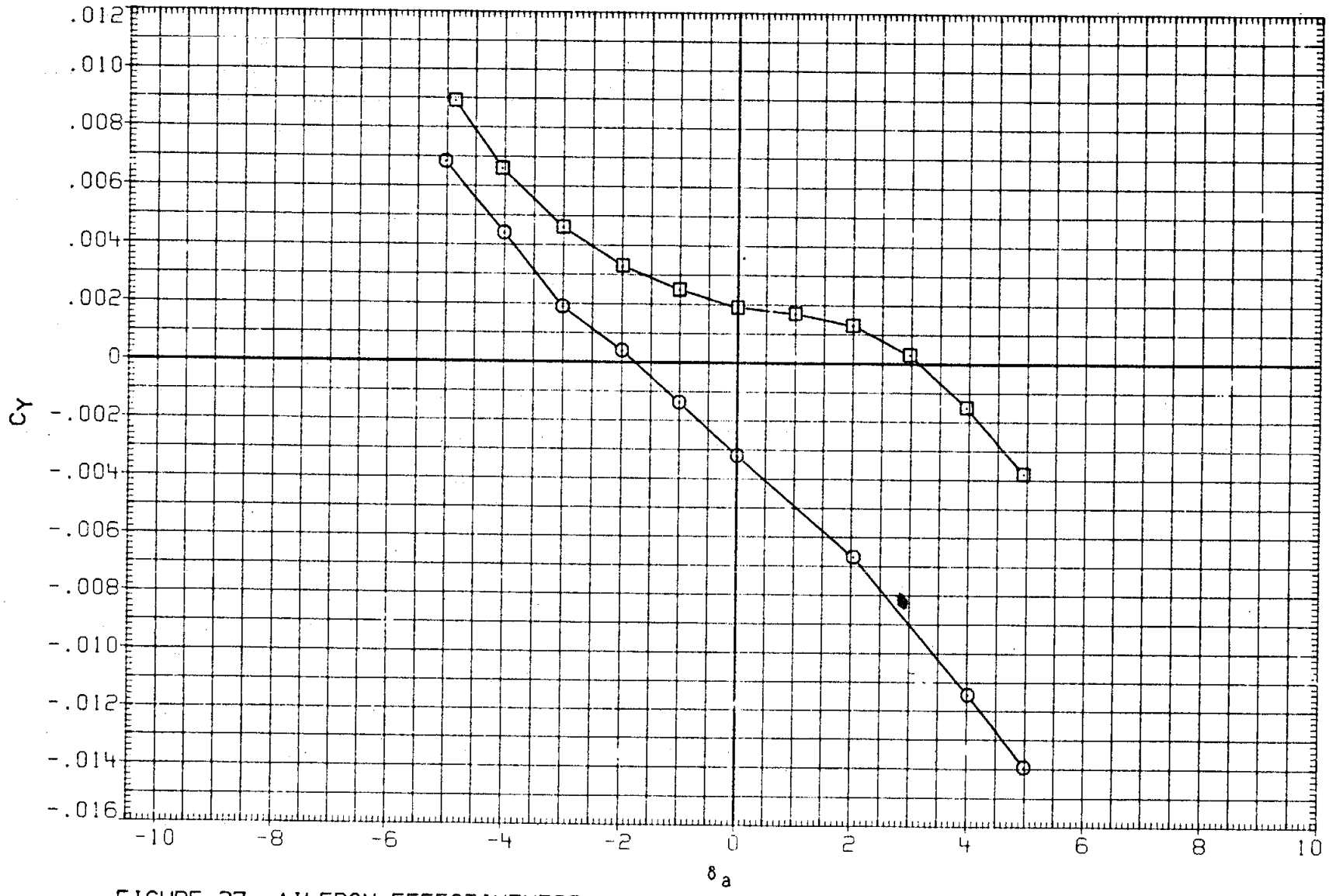

FIGURE 27. AILERON EFFECTIVENESS

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	ELEVON	BDFLAP	SPDBRK	RUDDER	PHI
RKN038	○	LARC 16FT TWT 326(0A270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000
R2F048	□	AMES 118-1-11 0A145A 01(-TO+)	5.000	.000	.000	.000	25.000	.000	
R2F049	◇	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	

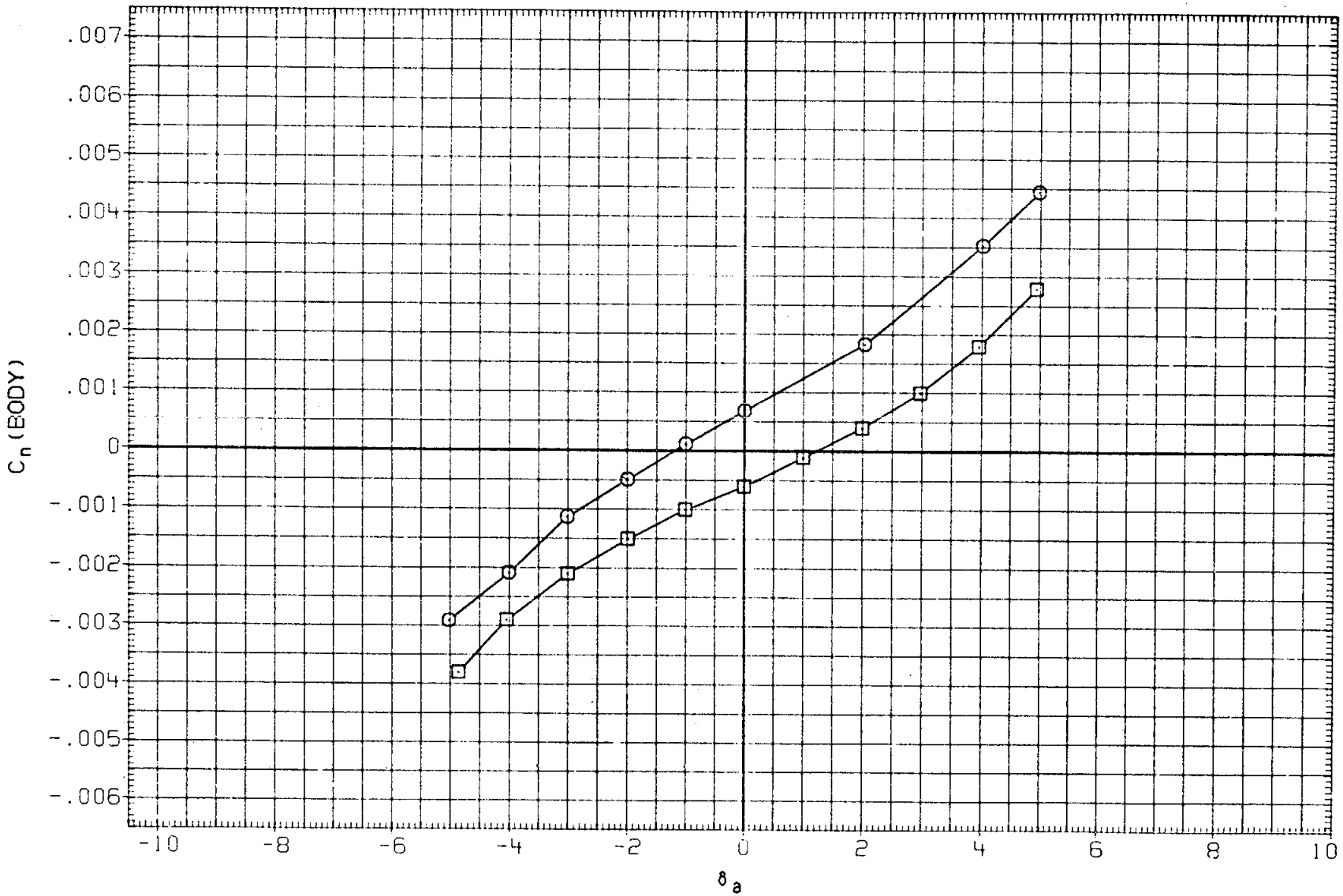

FIGURE 27. AILERON EFFECTIVENESS

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION
RKN038	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.
R2F048	□	AMES 118-1-11 OA145A 01(-TO+)
R2F049	◇	DATA NOT AVAILABLE

ALPHA	BETA	ELEVON	BDFLAP	SPDBRK	RUDDER	PHI
5.000	.000	.000	.000	25.000	.000	.000
5.000	.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	25.000	.000	

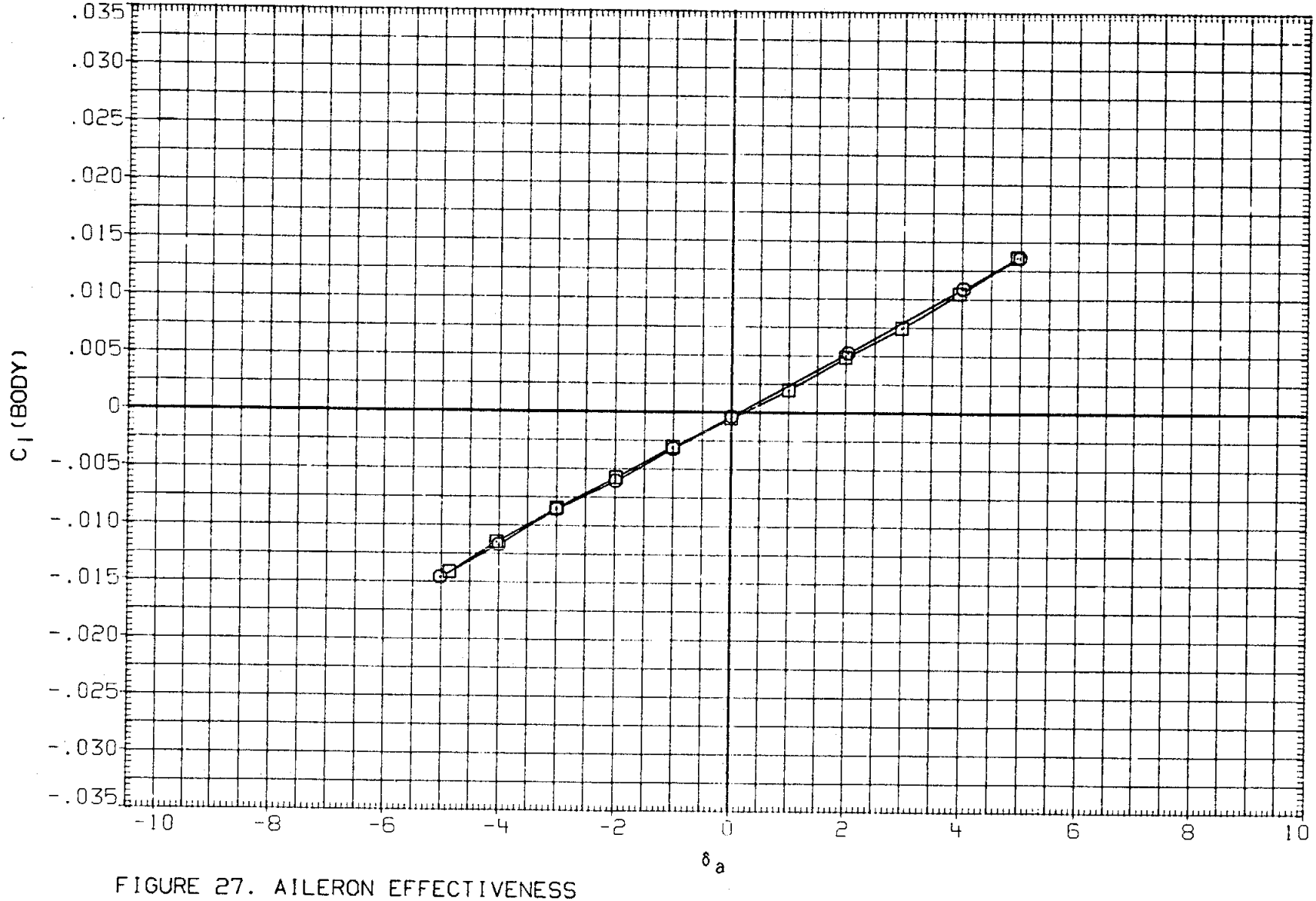

FIGURE 27. AILERON EFFECTIVENESS

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	ELEVON	BDFLAP	SPDBRK	RUDDER	PHI
RKN038	○	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	.000
R2F048	□	AMES 118-1-11 OA145A 01(-TO+)	5.000	.000	.000	.000	25.000	.000	
R2F049	◇	AMES 118-1-11 OA145A 01(+TO-)	5.000	.000	.000	.000	25.000	.000	

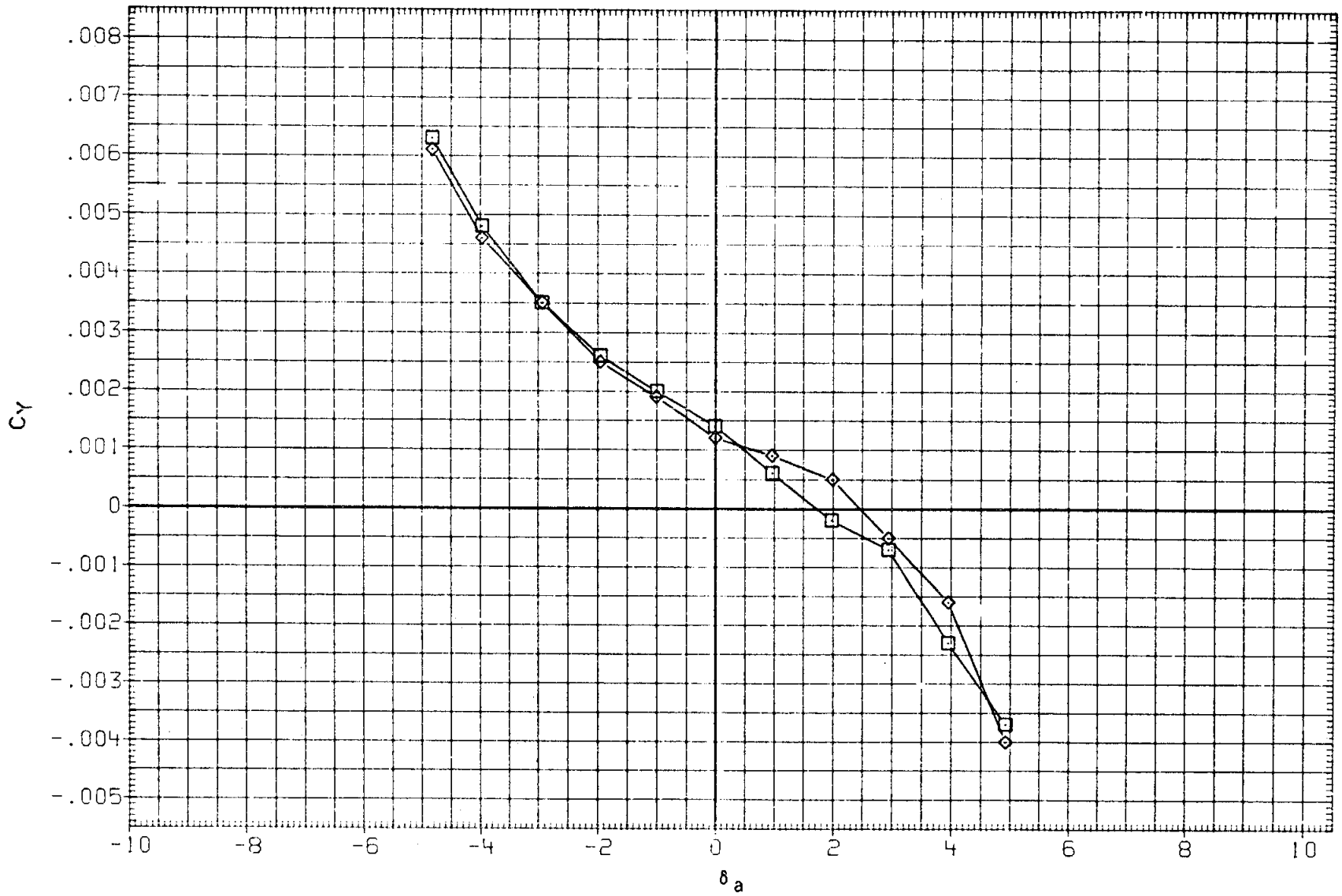

FIGURE 27. AILERON EFFECTIVENESS

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	ELEVON	BDFLAP	SPDBRK	RUDDER	PHI
RKN038	○	DATA NOT AVAILABLE	5.000	.000	.000	000	25.000	.000	.000
R2F048	□	AMES 118-1-11 OA145A 01(-TO+)	5.000	.000	.000	.000	25.000	.000	
R2F049	◇	AMES 118-1-11 OA145A 01(+TO-)	5.000	.000	.000	.000	25.000	.000	

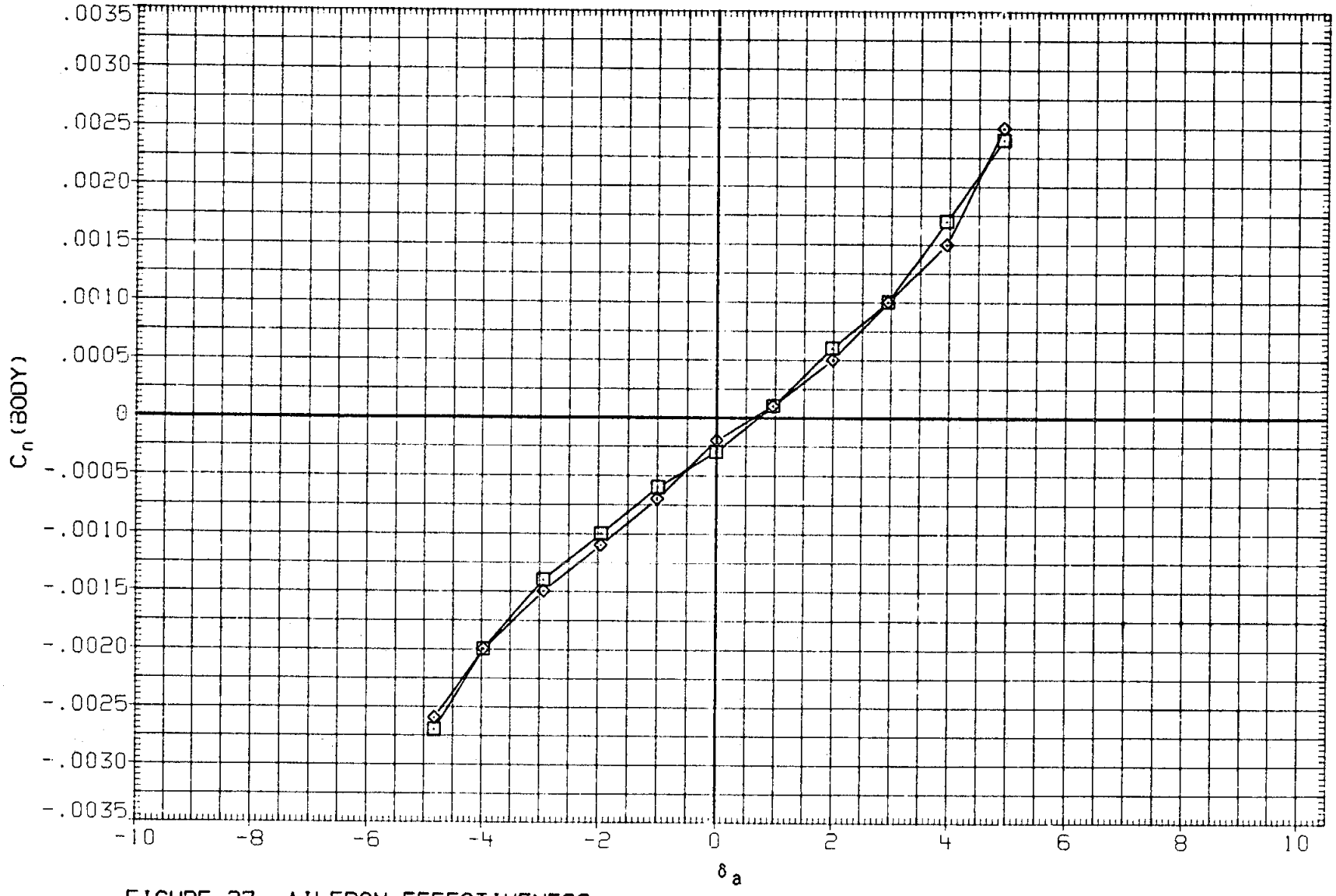

FIGURE 27. AILERON EFFECTIVENESS

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION
RKN038	○	DATA NOT AVAILABLE
R2F048	□	AMES 118-1-11 OA145A 01(-TO+)
R2F049	◇	AMES 118-1-11 OA145A 01(+TO-)

ALPHA	BETA	ELEVON	BDFLAP	SPDBRK	RUDDER	PHI
5.000	.000	.000	.000	25.000	.000	.000
5.000	.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	25.000	.000	

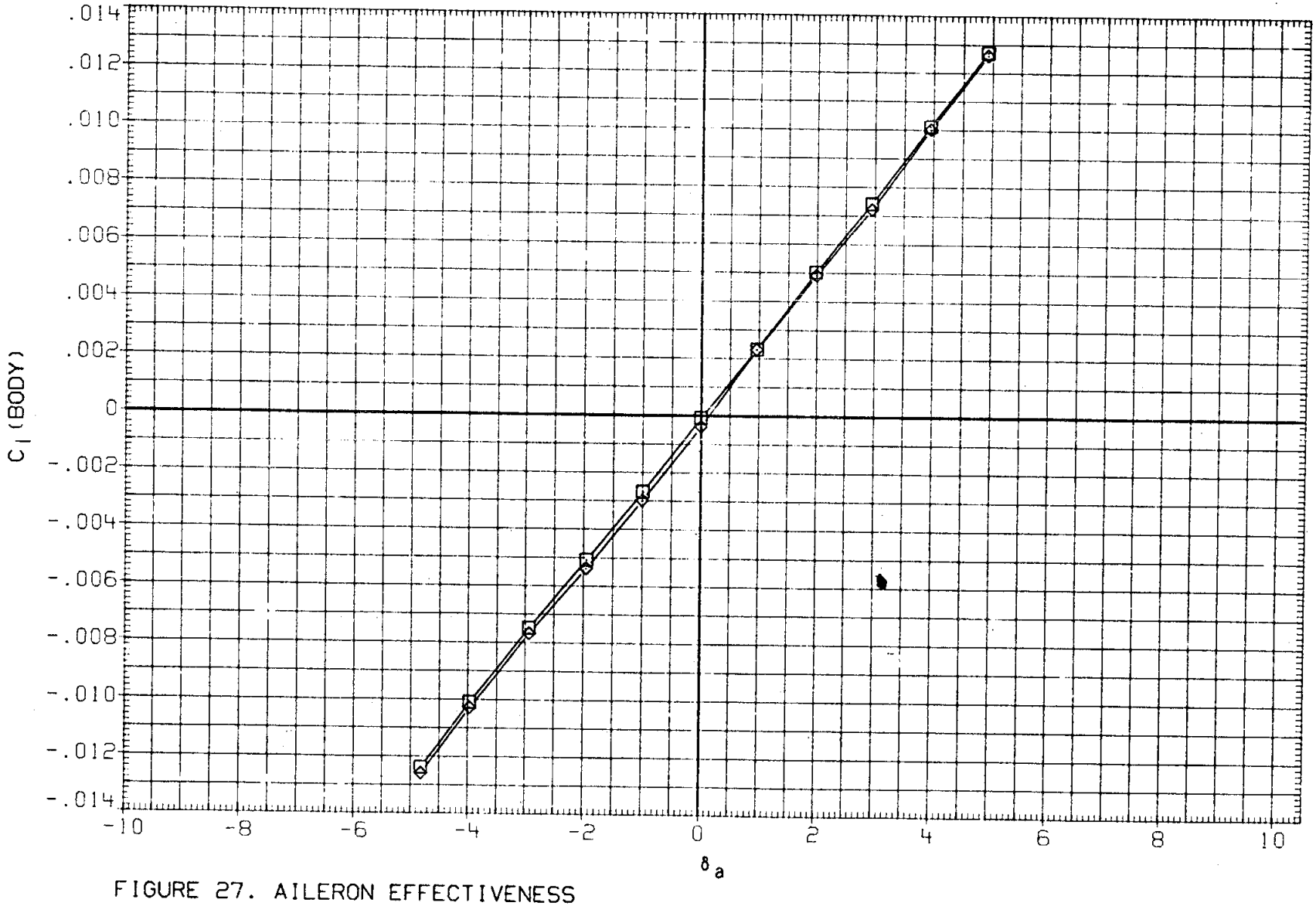

FIGURE 27. AILERON EFFECTIVENESS

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION
RKN038	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.
R2F048	□	AMES 118-1-11 OA145A 01(-TO+)
R2F049	◇	DATA NOT AVAILABLE

ALPHA	BETA	ELEVON	BDFLAP	SPDBRK	RUDDER	PHI
5.000	.000	.000	.000	25.000	.000	.000
5.000	.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	25.000	.000	

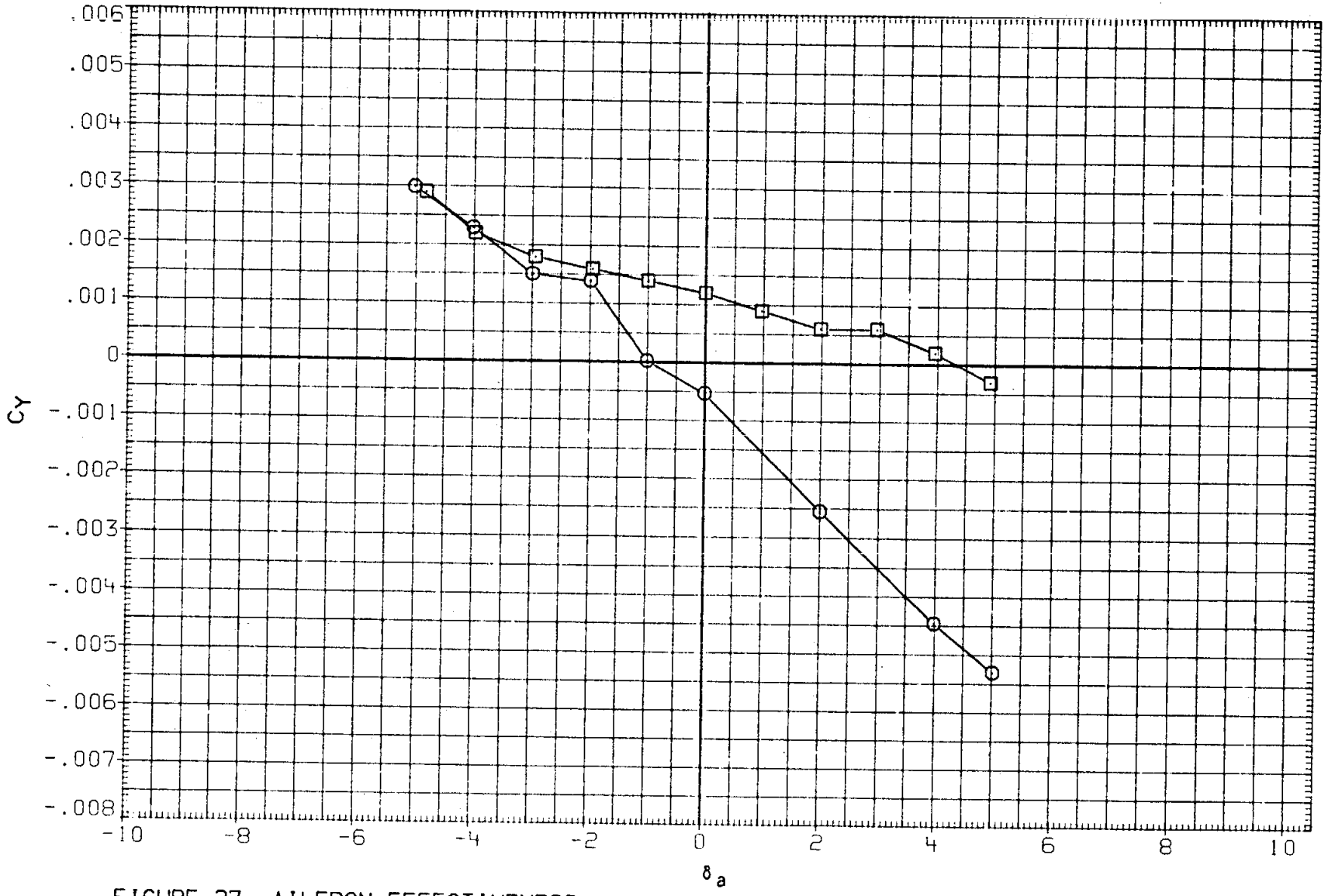

FIGURE 27. AILERON EFFECTIVENESS

(I)MACH = 1.28

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	ELEVON	BDFLAP	SPDBRK	RUDDER	PHI
RKN038	○	LARC 16FT TWT 326(0A270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000
R2F048	□	AMES 118-1-11 0A145A 0(1-TO+)	5.000	.000	.000	.000	25.000	.000	
R2F049	◇	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	

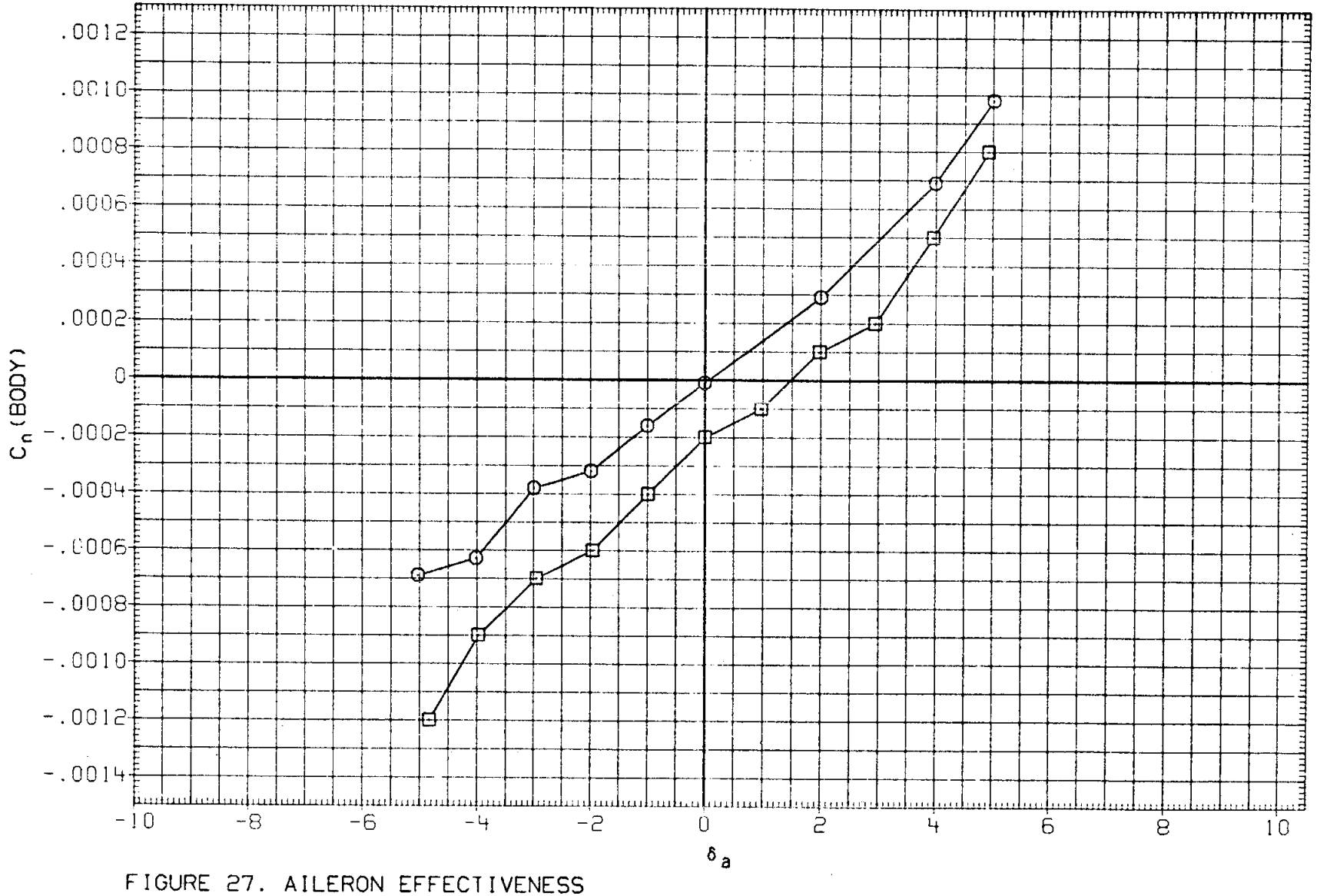

FIGURE 27. AILERON EFFECTIVENESS

(1)MACH = 1.28

DATA SET	SYMBOL	CONFIGURATION
RKN038	○	LARC 16FT TWT 326(0A270A) 39-0 ORB.
R2F048	□	AMES 118-1-11 0A145A 01(-TO+)
R2F049	◇	DATA NOT AVAILABLE

ALPHA	BETA	ELEVON	BDFLAP	SPDBRK	RUDDER	PHI
5.000	.000	.000	.000	25.000	.000	.000
5.000	.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	25.000	.000	

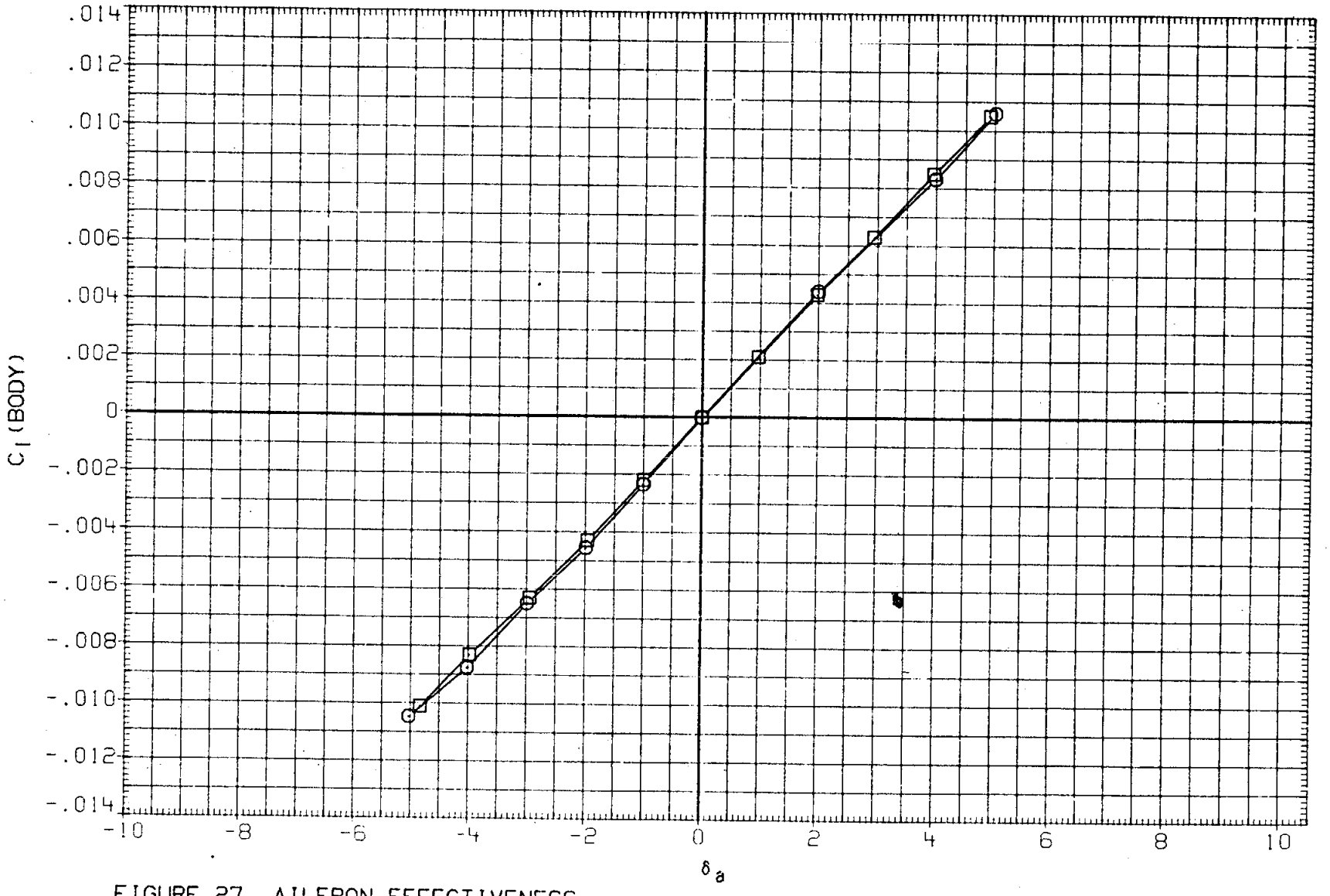

FIGURE 27. AILERON EFFECTIVENESS

(I)MACH = 1.28

DATA SET	SYMBOL	CONFIGURATION
RKN038	○	DATA NOT AVAILABLE
R2F048	□	AMES 118-1-11 OA145A 01(-TO+)
R2F049	◇	DATA NOT AVAILABLE

ALPHA	BETA	ELEVON	BDFLAP	SPDBRK	RUDDER	PHI
5.000	.000	.000	.000	25.000	.000	.000
5.000	.000	.000	.000	25.000	.000	
5.000	.000	.000	.000	25.000	.000	

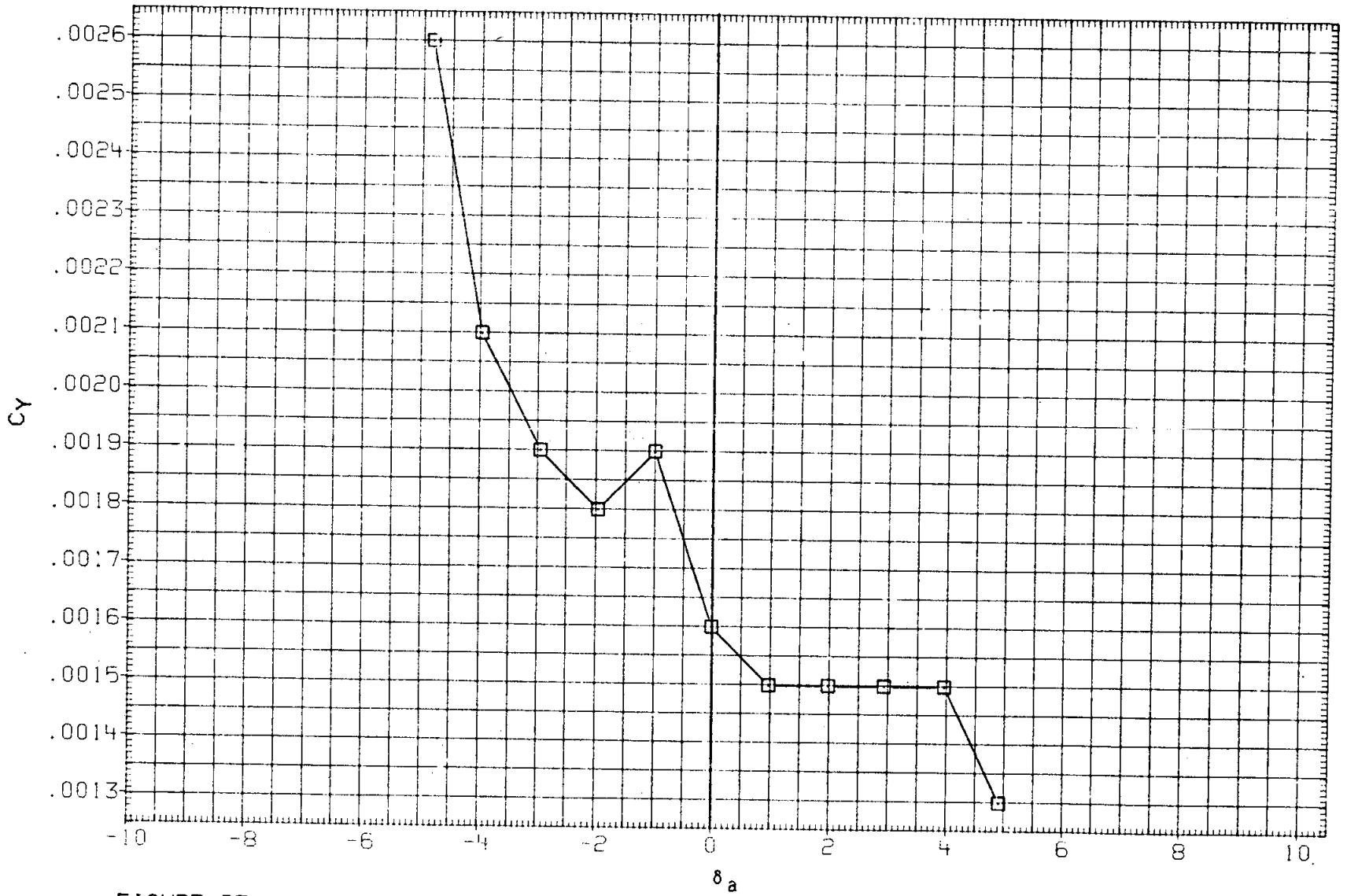

FIGURE 27. AILERON EFFECTIVENESS

(J)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	ELEVON	BDFLAP	SPDBRK	RUDDER	PHI
RKN038	○	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	.000
R2F048	□	AMES 118-1-11 OA145A 01(-TO+)	5.000	.000	.000	.000	25.000	.000	
R2F049	◇	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	

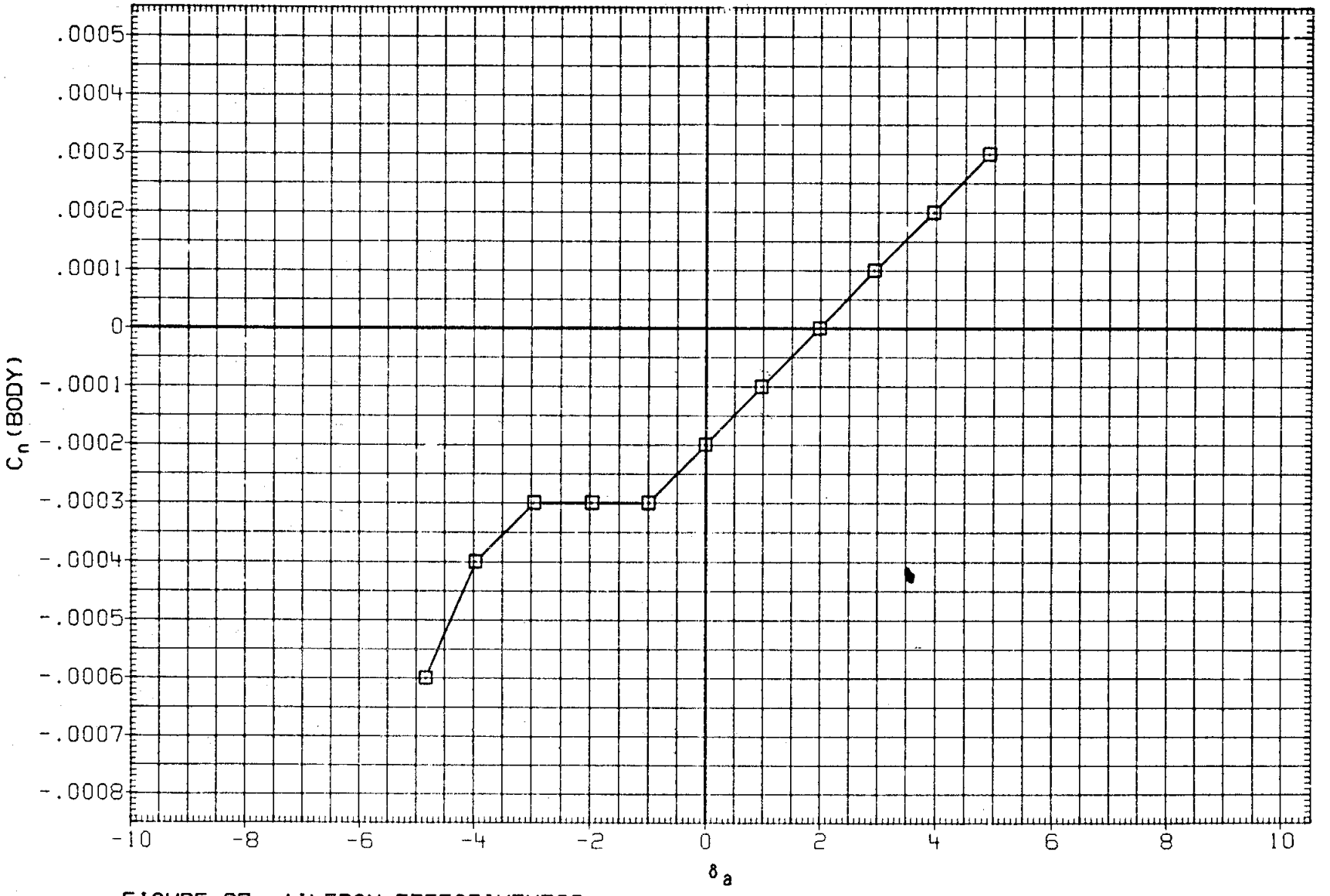

FIGURE 27. AILERON EFFECTIVENESS

(J)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	ELEVON	BDFLAP	SPDBRK	RUDDER	PHI
RKN038	○	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	.000
R2F048	□	AMES 118-1-11 OA145A 01(-TO+)	5.000	.000	.000	.000	25.000	.000	
R2F049	◇	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	

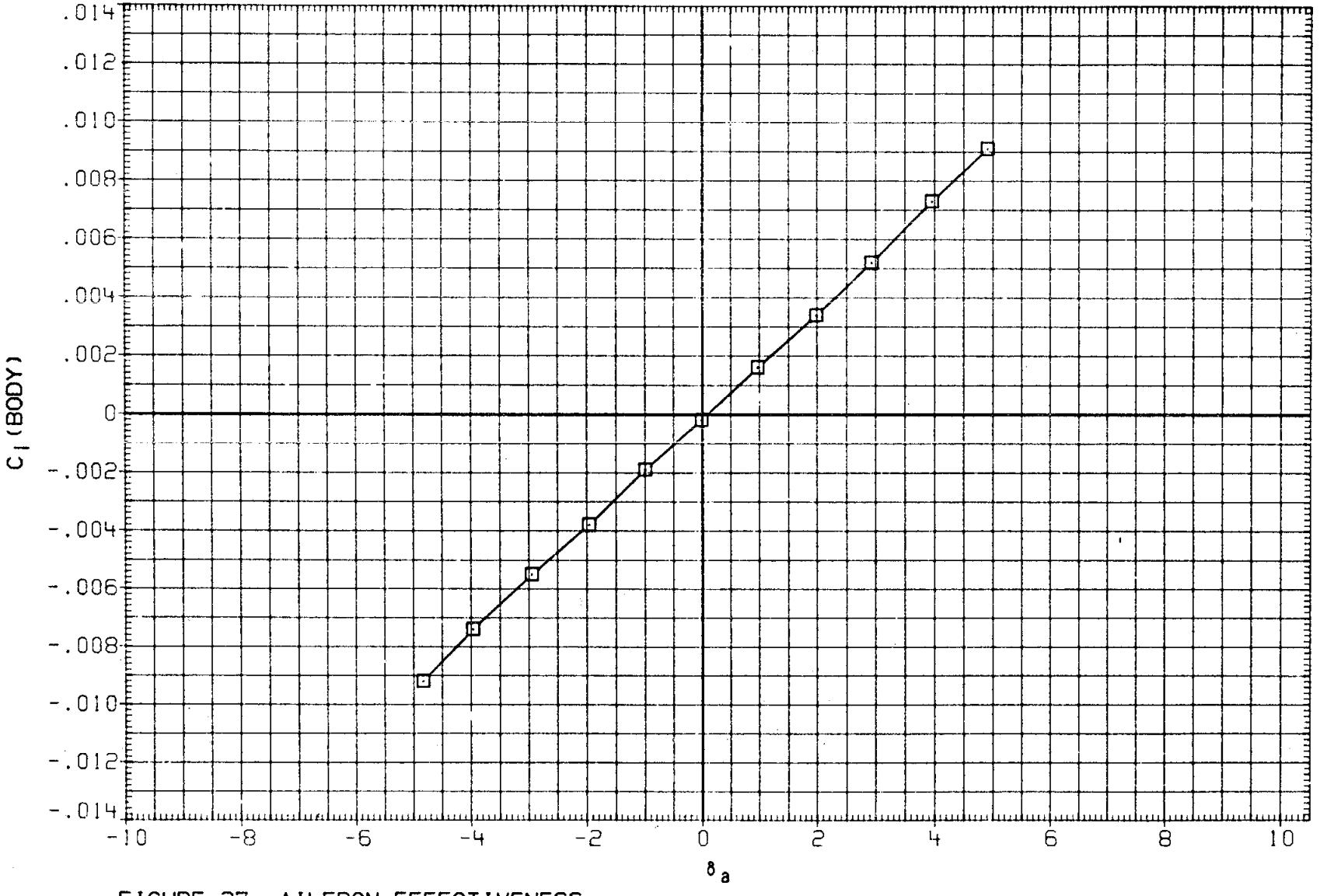

FIGURE 27. AILERON EFFECTIVENESS

(J)MACH = 1.40

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
RKN025	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	3.000	.000	25.000	.000	.000
RK0008	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-2.400	2.400	.000	25.500	-.030	.000
RKN023	◺	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	-5.000	3.000	.000	25.000	.000	.000
RKN027	◗	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	5.000	3.000	.000	25.000	.000	.000

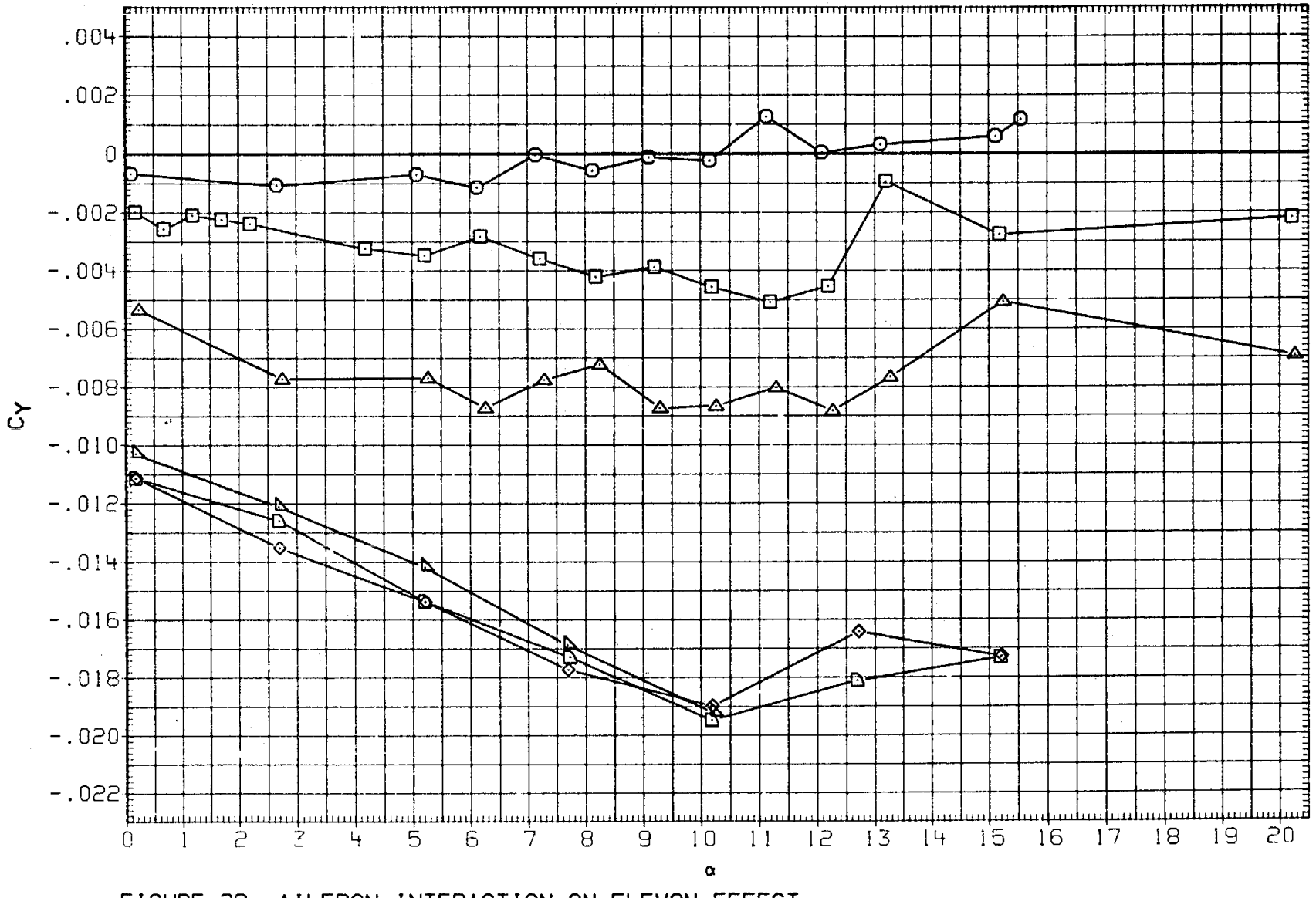

FIGURE 28. AILERON INTERACTION ON ELEVON EFFECT

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
RKN025	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	3.000	.000	25.000	.000	.000
RK0008	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-2.400	2.400	.000	25.500	-.030	.000
RKN023	◺	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	-5.000	3.000	.000	25.000	.000	.000
RKN027	D	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	5.000	3.000	.000	25.000	.000	.000

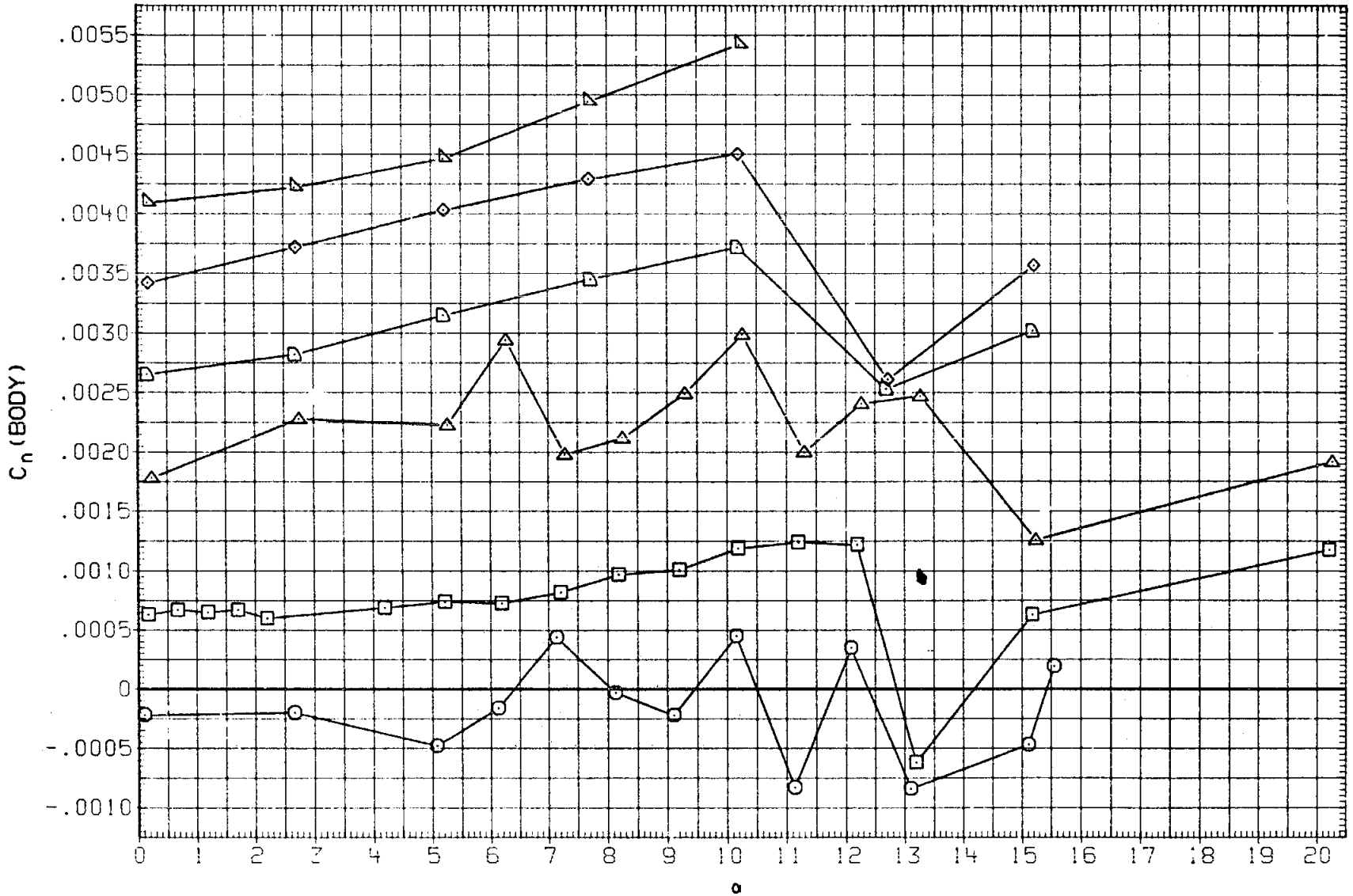

FIGURE 28. AILERON INTERACTION ON ELEVON EFFECT

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
RKN025	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	3.000	.000	25.000	.000	.000
RK0008	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-2.400	2.400	.000	25.500	-.030	.000
RKN023	◺	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	-5.000	3.000	.000	25.000	.000	.000
RKN027	◻	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	5.000	3.000	.000	25.000	.000	.000

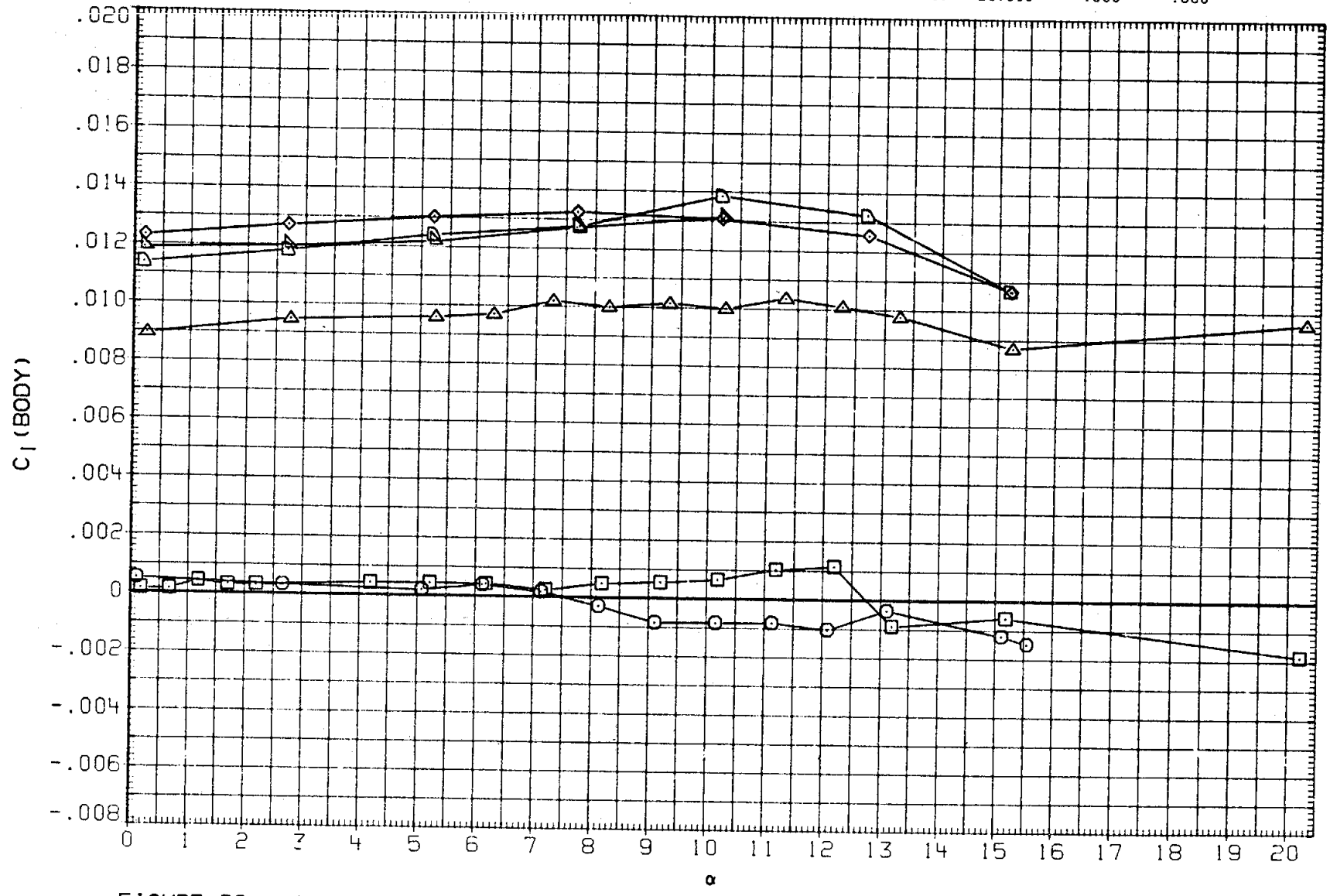

FIGURE 28. AILERON INTERACTION ON ELEVON EFFECT

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
RKN025	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	3.000	.000	25.000	.000	.000
RK0008	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-2.400	2.400	.000	25.500	-.030	.000
RKN023	◁	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	-5.000	3.000	.000	25.000	.000	.000
RKN027	⌂	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	5.000	3.000	.000	25.000	.000	.000

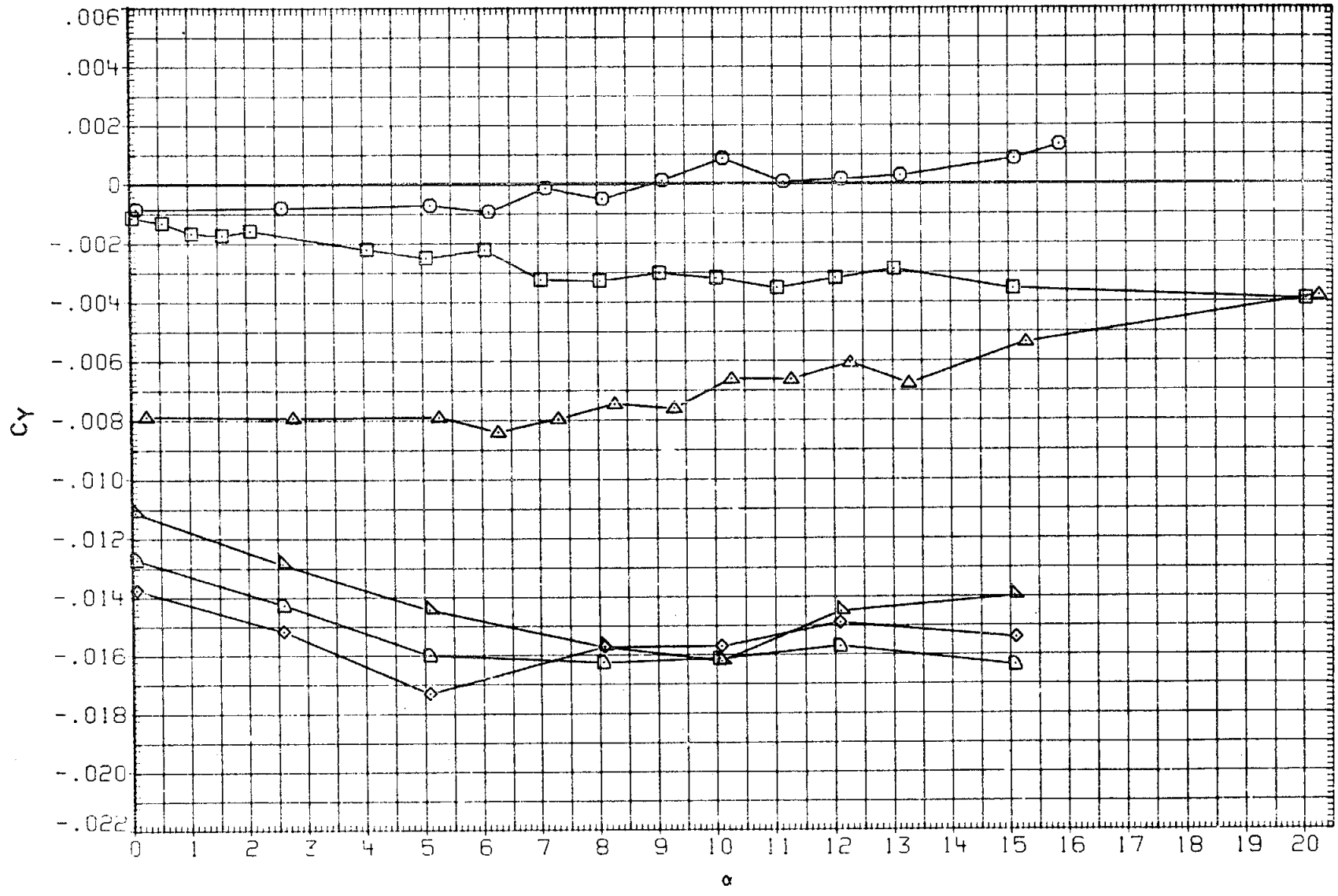

FIGURE 28. AILERON INTERACTION ON ELEVON EFFECT

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
RKN025	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	3.000	.000	25.000	.000	.000
RK0008	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-2.400	2.400	.000	25.500	-.030	.000
RKN023	◺	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	-5.000	3.000	.000	25.000	.000	.000
RKN027	D	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	5.000	3.000	.000	25.000	.000	.000

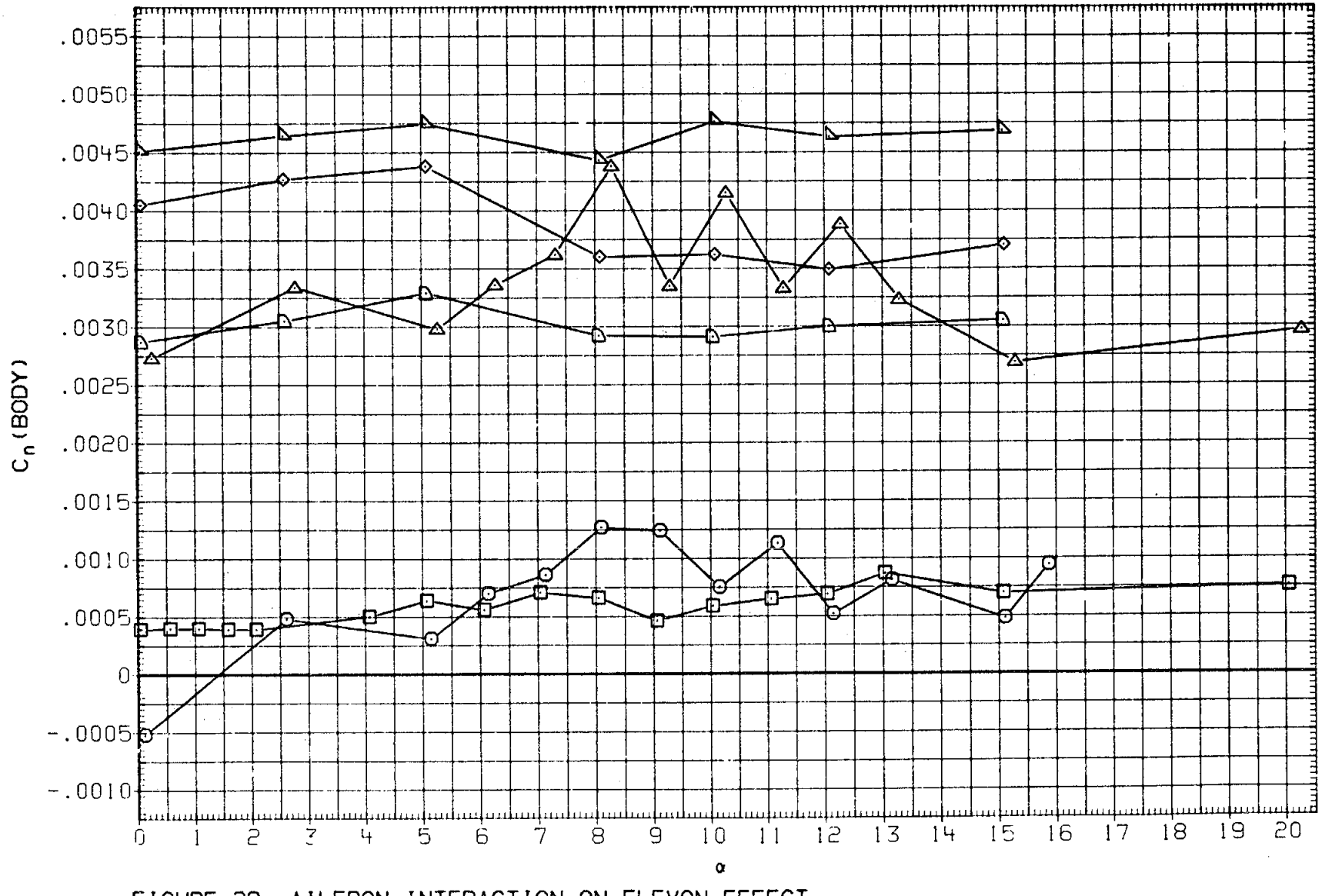

FIGURE 28. AILERON INTERACTION ON ELEVON EFFECT

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
RKN025	◇	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	3.000	.000	25.000	.000	.000
RK0008	△	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	-2.400	2.400	.000	25.500	-.030	.000
RKN023	◺	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	-5.000	3.000	.000	25.000	.000	.000
RKN027	◻	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	5.000	3.000	.000	25.000	.000	.000

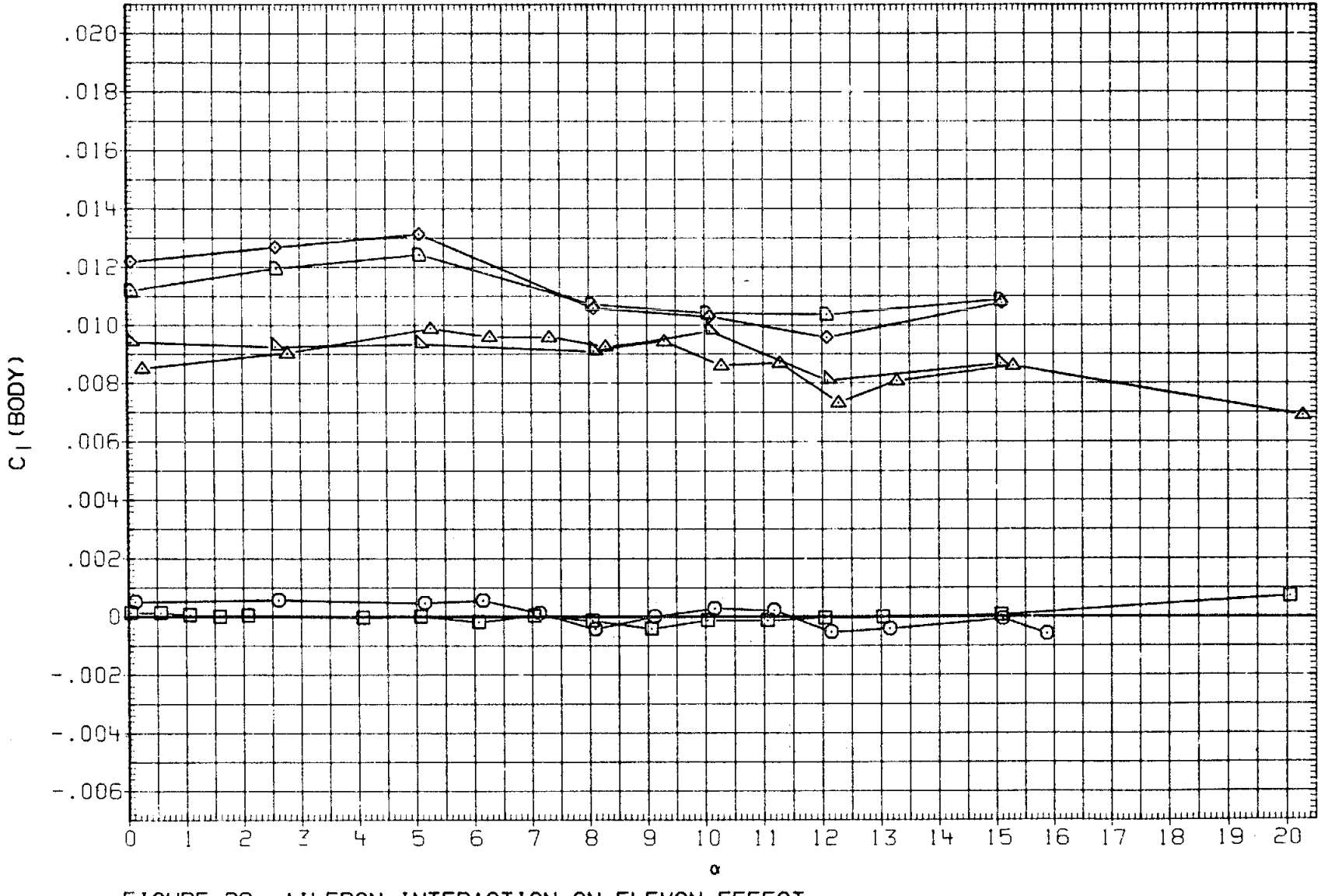

FIGURE 28. AILERON INTERACTION ON ELEVON EFFECT

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
RKN025	◇	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	.000
RK0008	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-2.400	2.400	.000	25.500	-.030	.000
RKN023	◺	DATA NOT AVAILABLE	.000	-5.000	3.000	.000	25.000	.000	.000
RKN027	D	DATA NOT AVAILABLE	.000	5.000	3.000	.000	25.000	.000	.000

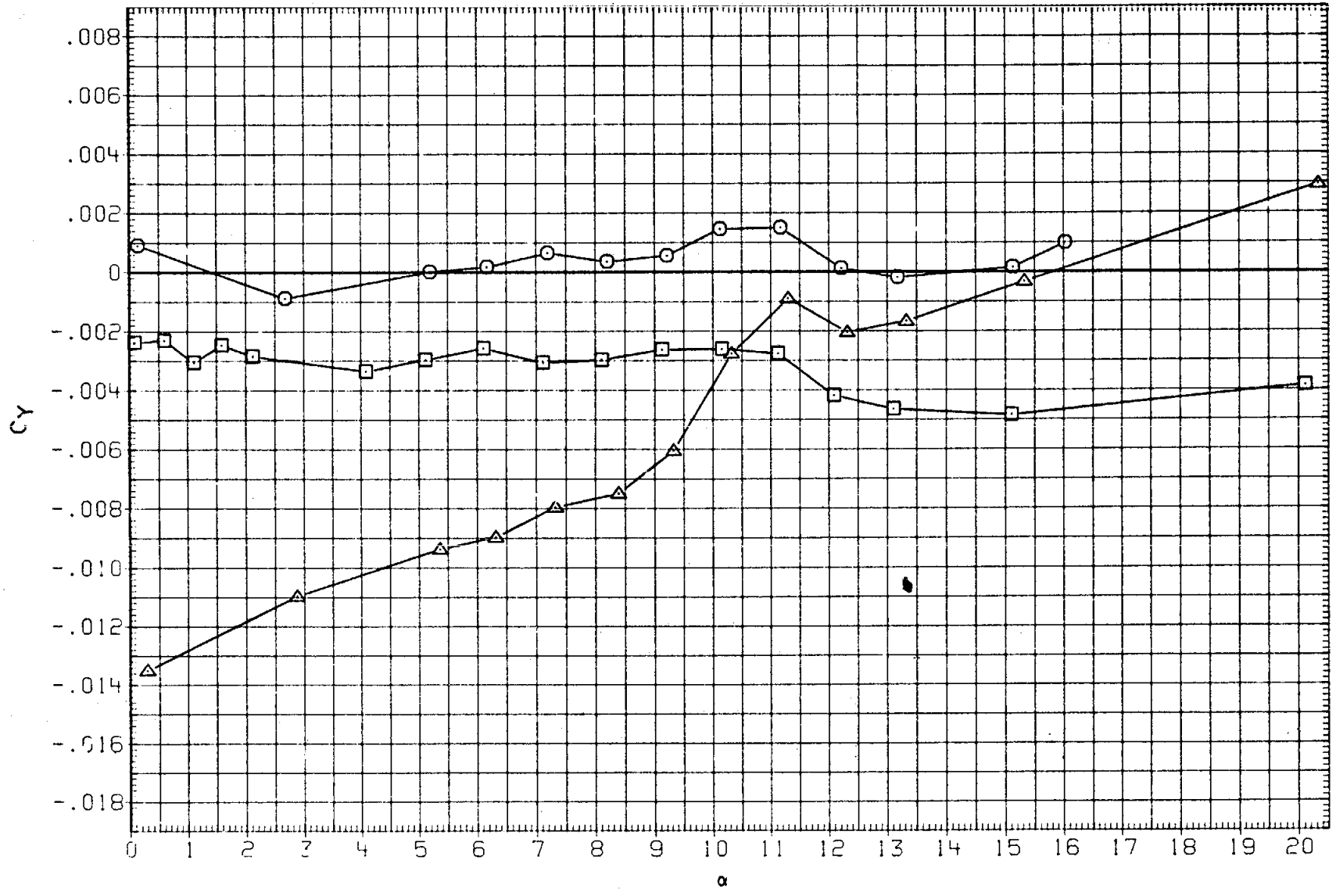

FIGURE 28. AILERON INTERACTION ON ELEVON EFFECT

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
RKN025	◇	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	.000
RK0008	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-2.400	2.400	.000	25.500	-.030	.000
RKN023	◺	DATA NOT AVAILABLE	.000	-5.000	3.000	.000	25.000	.000	.000
RKN027	◗	DATA NOT AVAILABLE	.000	5.000	3.000	.000	25.000	.000	.000

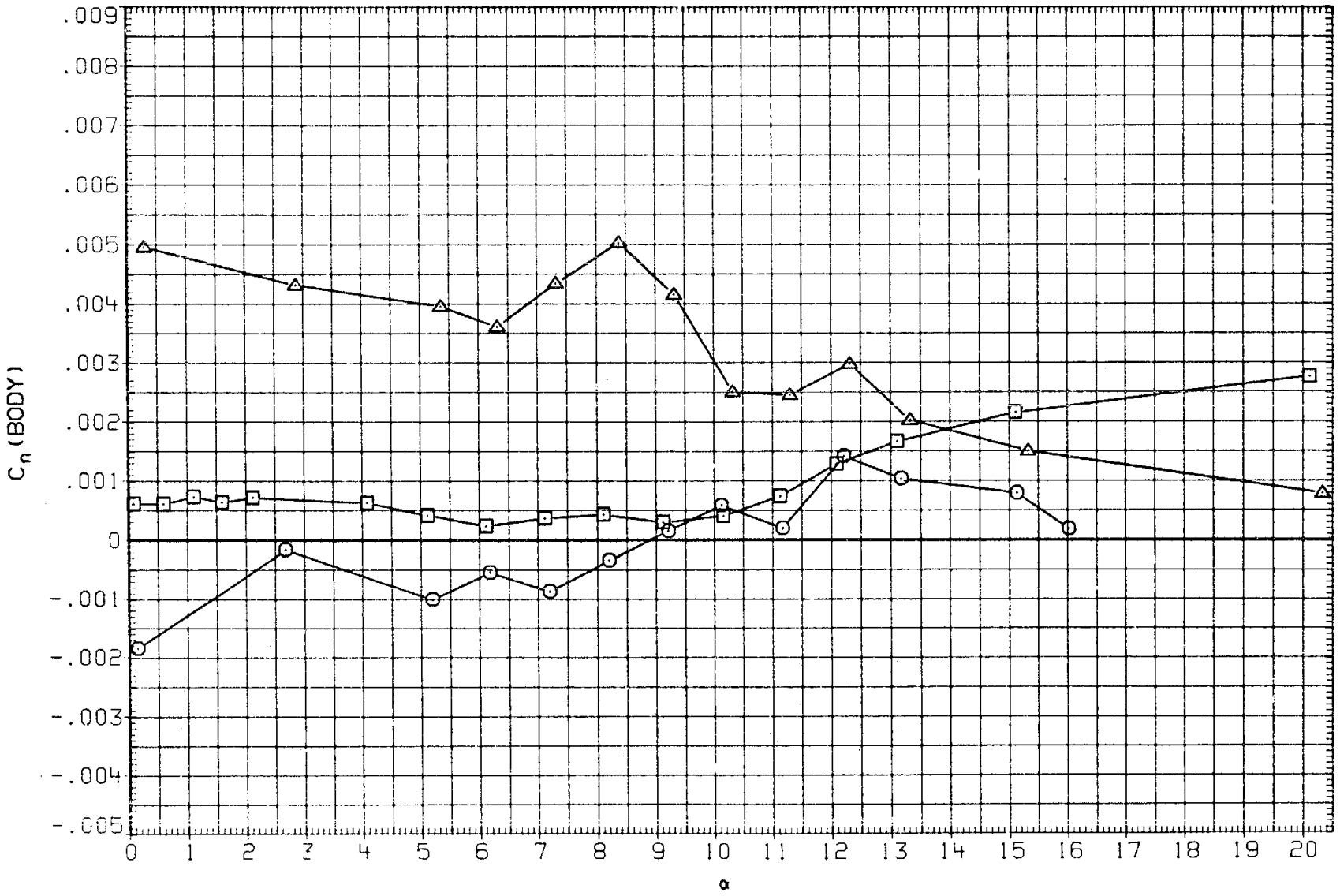

FIGURE 28. AILERON INTERACTION ON ELEVON EFFECT

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
RKN025	◇	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	.000
RK0008	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-2.400	2.400	.000	25.500	-.030	.000
RKN023	◺	DATA NOT AVAILABLE	.000	-5.000	3.000	.000	25.000	.000	.000
RKN027	◻	DATA NOT AVAILABLE	.000	5.000	3.000	.000	25.000	.000	.000

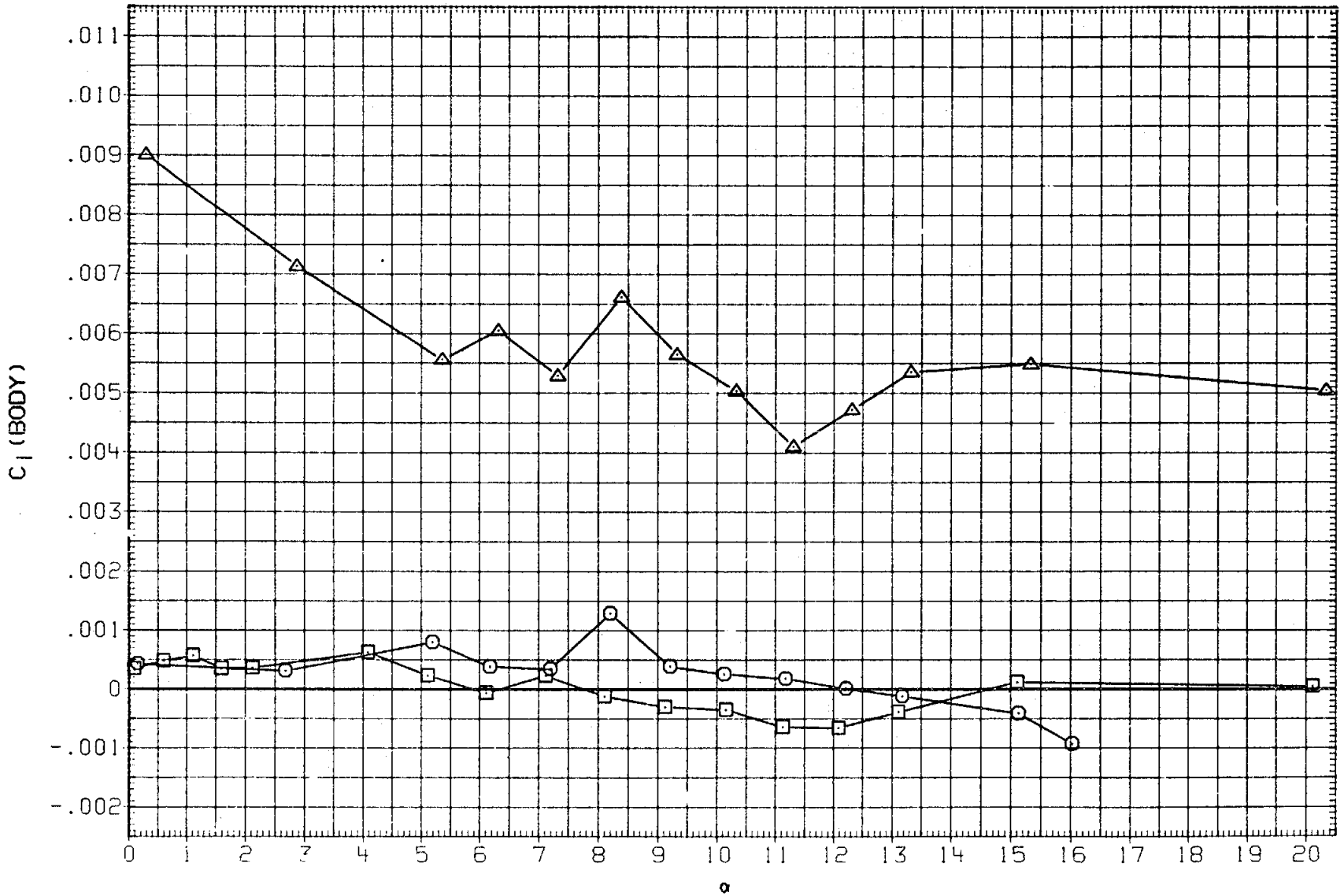

FIGURE 28. AILERON INTERACTION ON ELEVON EFFECT

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
RKN025	◇	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	.000
RK0008	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-2.400	2.400	.000	25.500	-.030	.000
RKN023	⊿	DATA NOT AVAILABLE	.000	-5.000	3.000	.000	25.000	.000	.000
RKN027	⊿	DATA NOT AVAILABLE	.000	5.000	3.000	.000	25.000	.000	.000

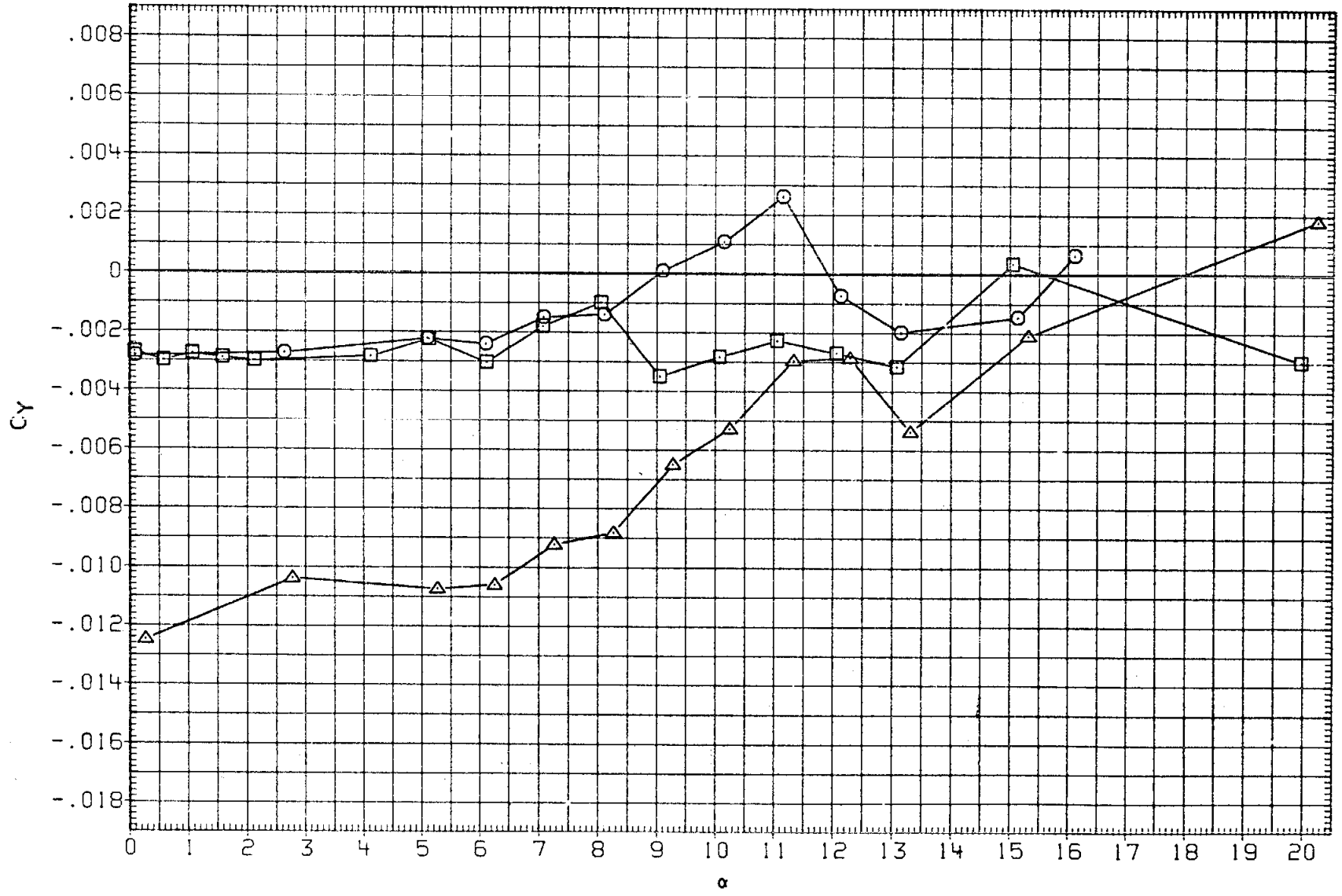

FIGURE 28. AILERON INTERACTION ON ELEVON EFFECT

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
RKN025	◇	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	.000
RK0008	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-2.400	2.400	.000	25.500	-.030	.000
RKN023	◁	DATA NOT AVAILABLE	.000	-5.000	3.000	.000	25.000	.000	.000
RKN027	D	DATA NOT AVAILABLE	.000	5.000	3.000	.000	25.000	.000	.000

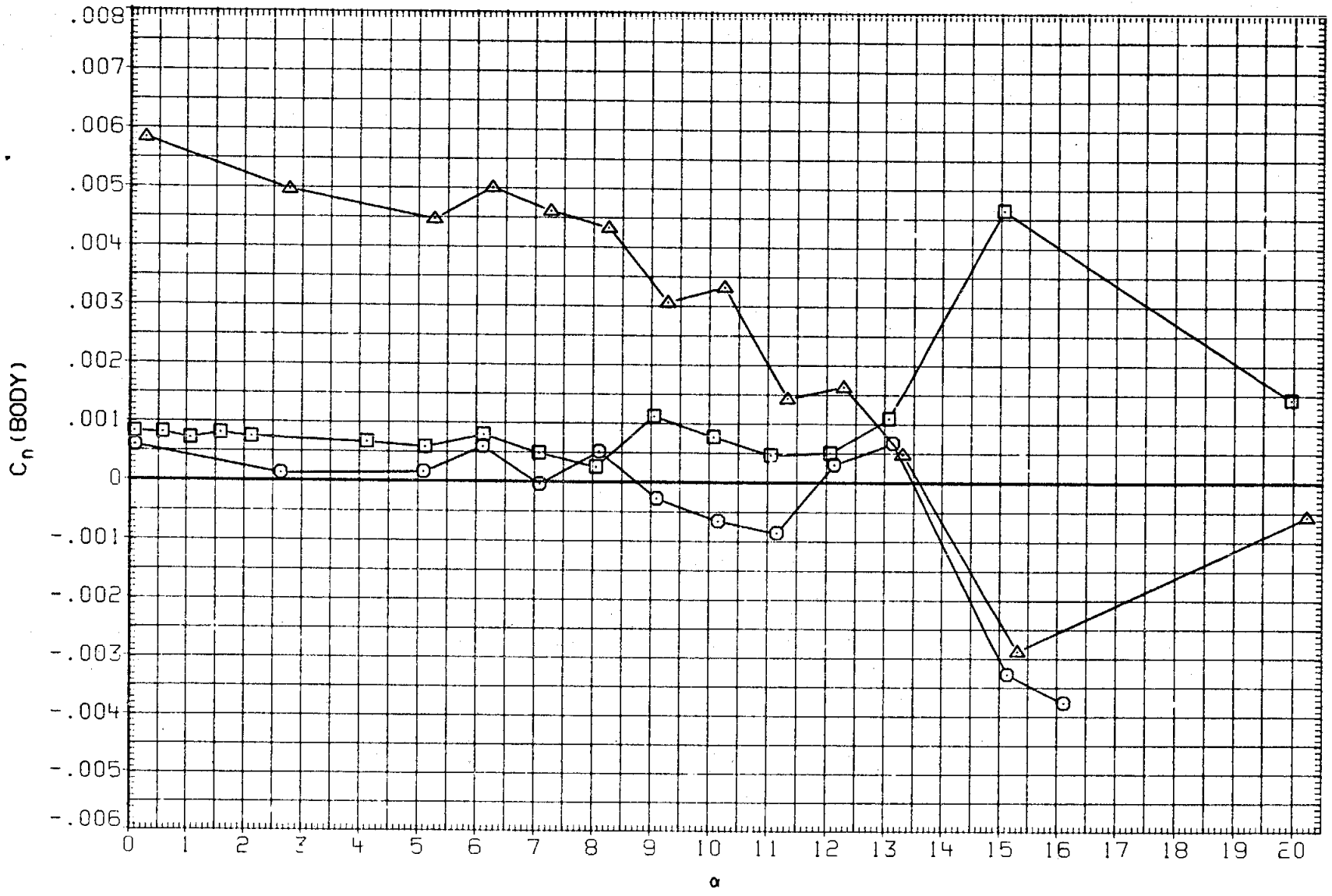

FIGURE 28. AILERON INTERACTION ON ELEVON EFFECT

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
RKN025	◇	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	.000
RK0008	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-2.400	2.400	.000	25.500	-.030	.000
RKN023	◺	DATA NOT AVAILABLE	.000	-5.000	3.000	.000	25.000	.000	.000
RKN027	◻	DATA NOT AVAILABLE	.000	5.000	3.000	.000	25.000	.000	.000

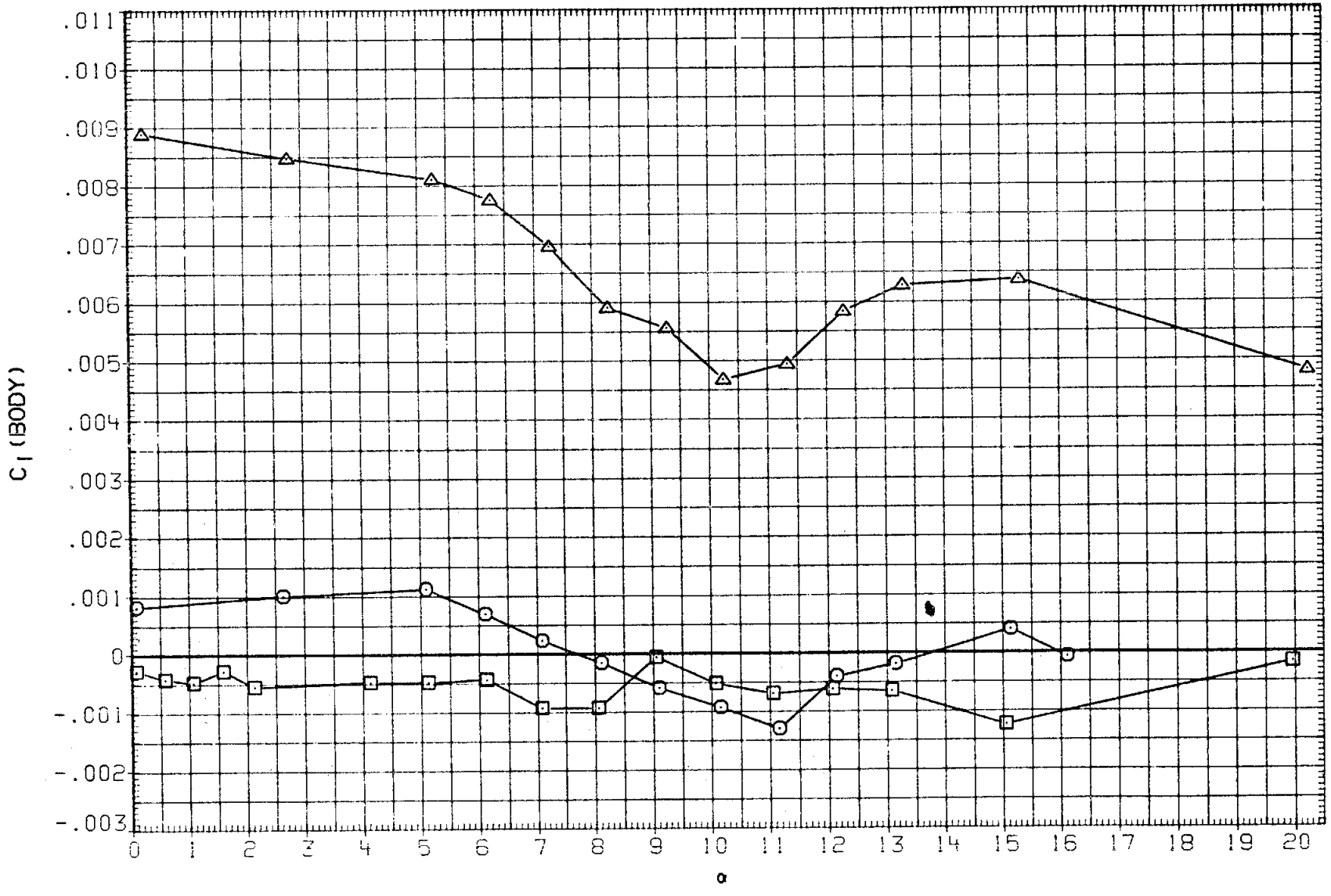

FIGURE 28. AILERON INTERACTION ON ELEVON EFFECT

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
RKN025	◇	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	.000
RK0008	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-2.400	2.400	.000	25.500	-.030	.000
RKN023	◺	DATA NOT AVAILABLE	.000	-5.000	3.000	.000	25.000	.000	.000
RKN027	◻	DATA NOT AVAILABLE	.000	5.000	3.000	.000	25.000	.000	.000

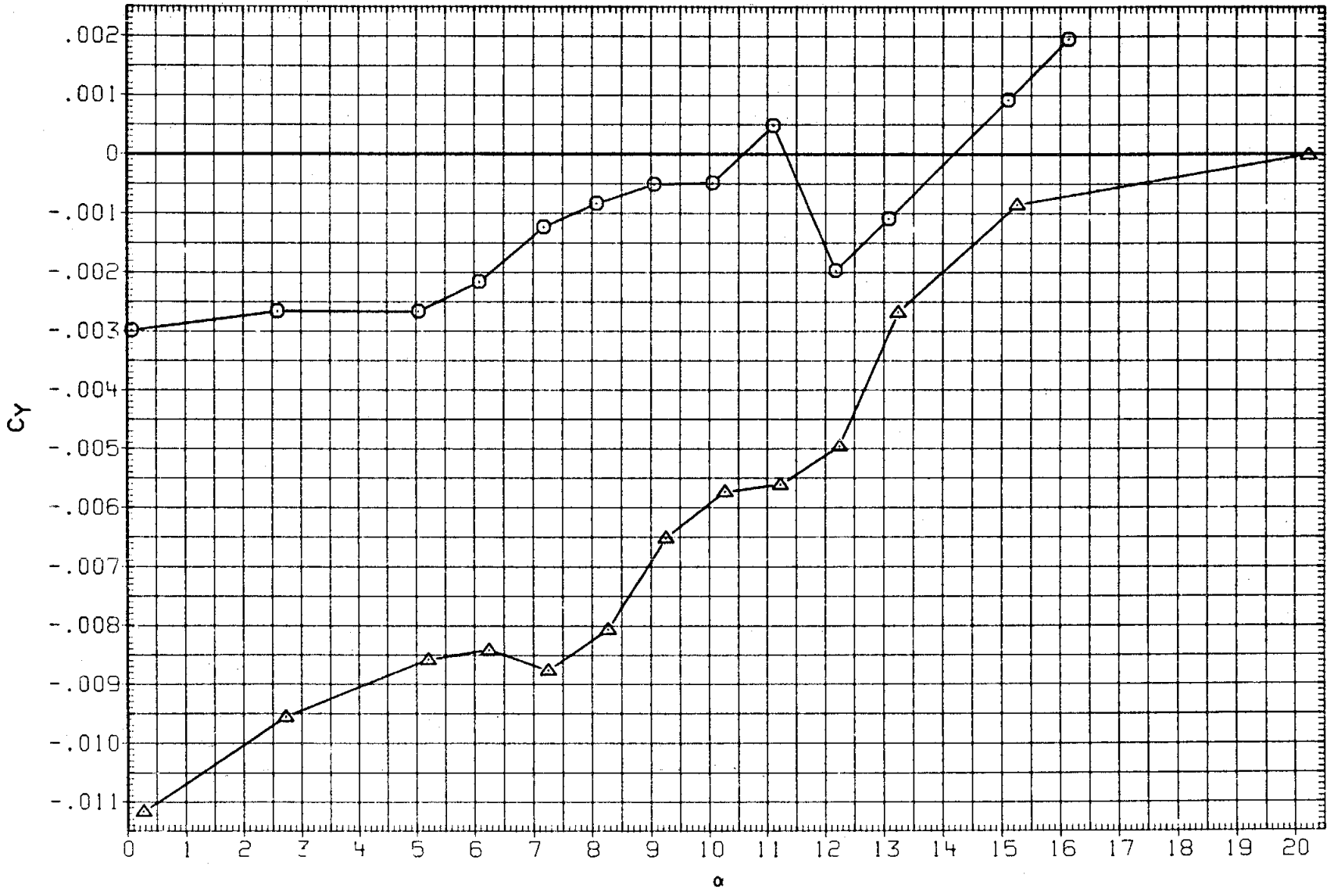

FIGURE 28. AILERON INTERACTION ON ELEVON EFFECT

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
RKN025	◇	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	.000
RK0008	△	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	-2.400	2.400	.000	25.500	-.030	.000
RKN023	◺	DATA NOT AVAILABLE	.000	-5.000	3.000	.000	25.000	.000	.000
RKN027	◻	DATA NOT AVAILABLE	.000	5.000	3.000	.000	25.000	.000	.000

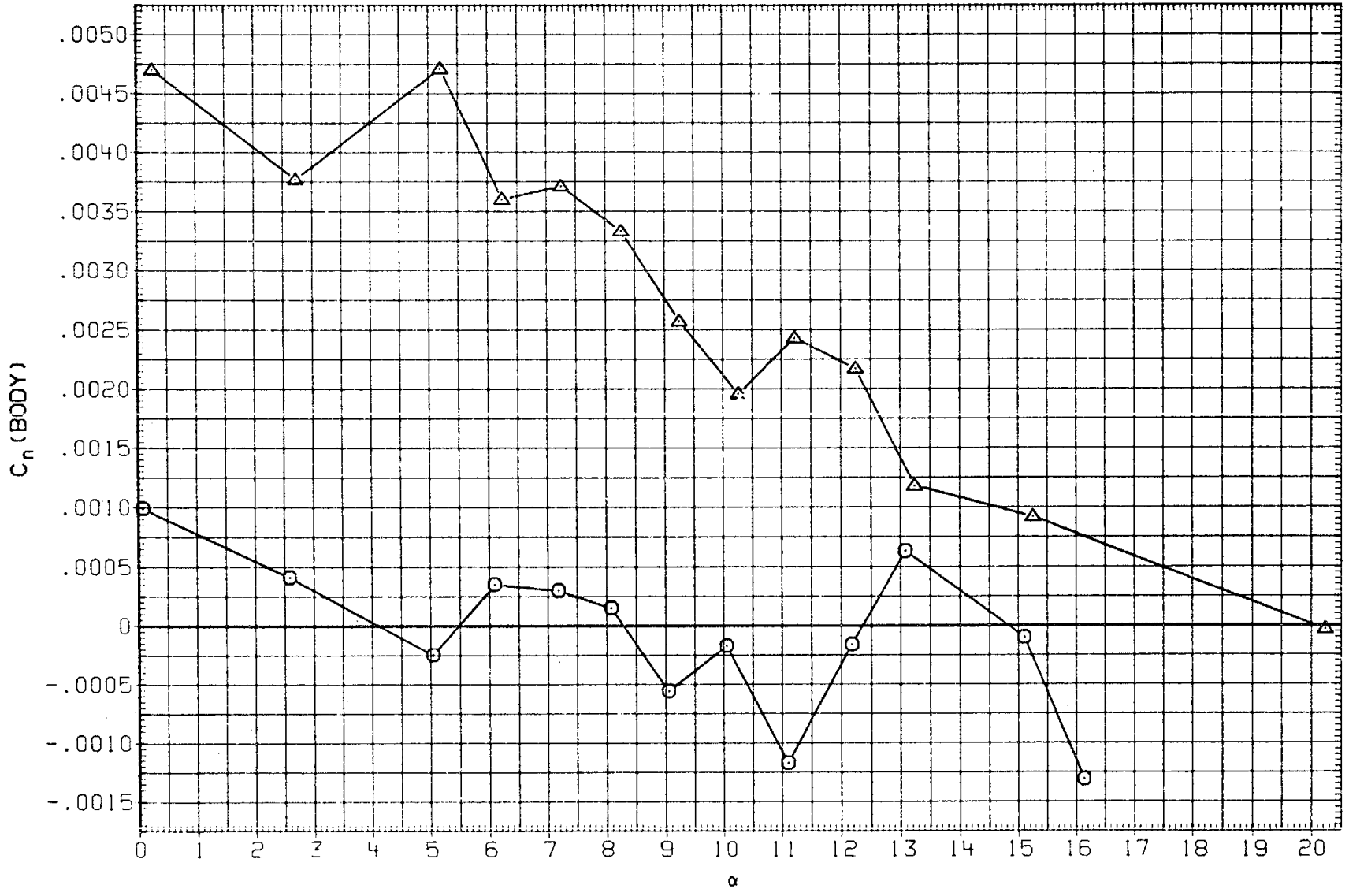

FIGURE 28. AILERON INTERACTION ON ELEVON EFFECT

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
RKN025	◇	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	.000
RK0008	△	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	-2.400	2.400	.000	25.500	-.030	.000
RKN023	◺	DATA NOT AVAILABLE	.000	-5.000	3.000	.000	25.000	.000	.000
RKN027	◻	DATA NOT AVAILABLE	.000	5.000	3.000	.000	25.000	.000	.000

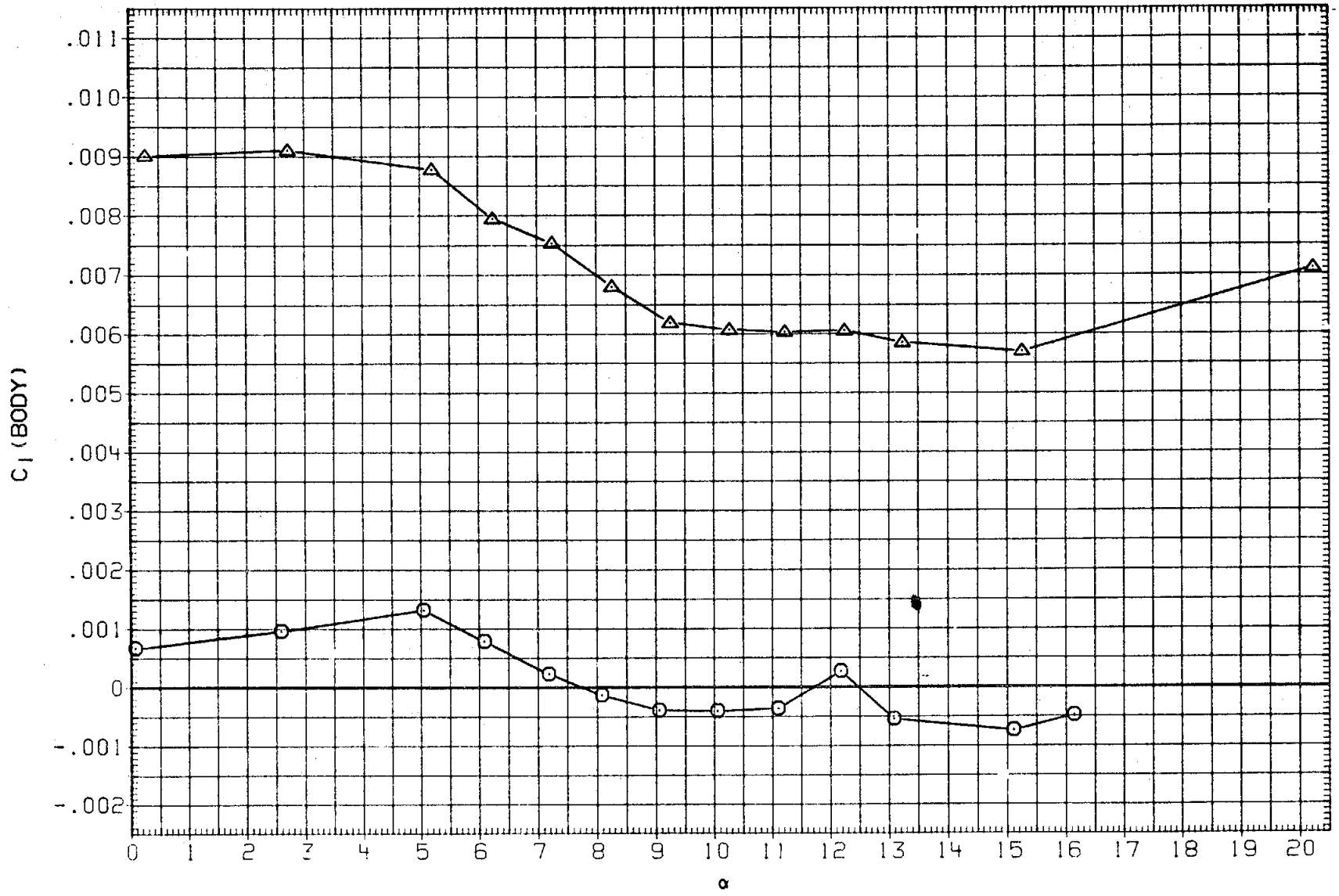

FIGURE 28. AILERON INTERACTION ON ELEVON EFFECT

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
RKN025	◇	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	.000
RK0008	△	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	-2.400	2.400	.000	25.500	-.030	.000
RKN023	◺	DATA NOT AVAILABLE	.000	-5.000	3.000	.000	25.000	.000	.000
RKN027	◻	DATA NOT AVAILABLE	.000	5.000	3.000	.000	25.000	.000	.000

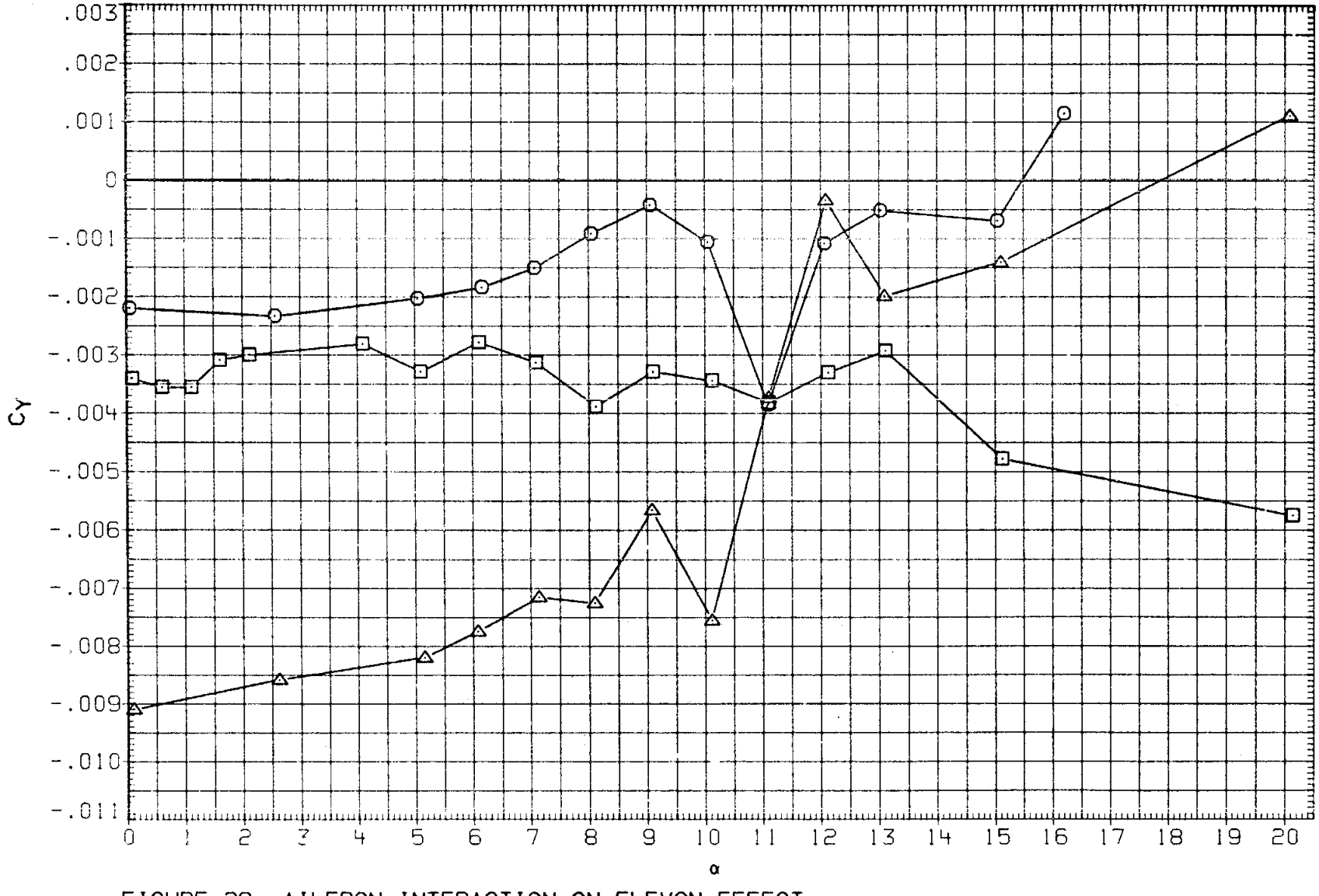

FIGURE 28. AILERON INTERACTION ON ELEVON EFFECT

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
RKN025	◇	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	.000
RK0008	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-2.400	2.400	.000	25.500	-.030	.000
RKN023	◺	DATA NOT AVAILABLE	.000	-5.000	3.000	.000	25.000	.000	.000
RKN027	◺	DATA NOT AVAILABLE	.000	5.000	3.000	.000	25.000	.000	.000

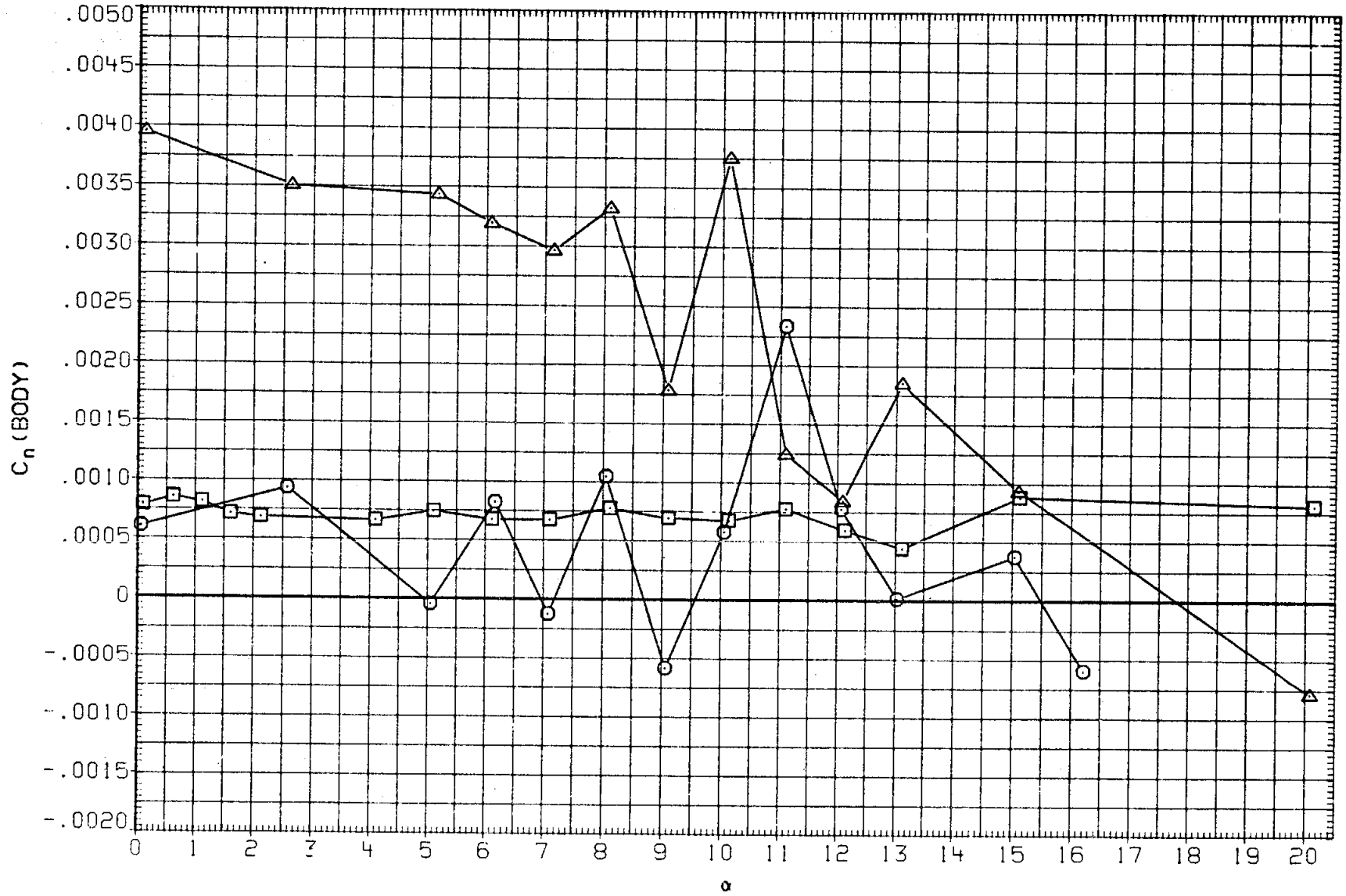

FIGURE 28. AILERON INTERACTION ON ELEVON EFFECT

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0006	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
RKN025	◇	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	.000
RK0008	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-2.400	2.400	.000	25.500	-.030	.000
RKN023	◺	DATA NOT AVAILABLE	.000	-5.000	3.000	.000	25.000	.000	.000
RKN027	◺	DATA NOT AVAILABLE	.000	5.000	3.000	.000	25.000	.000	.000

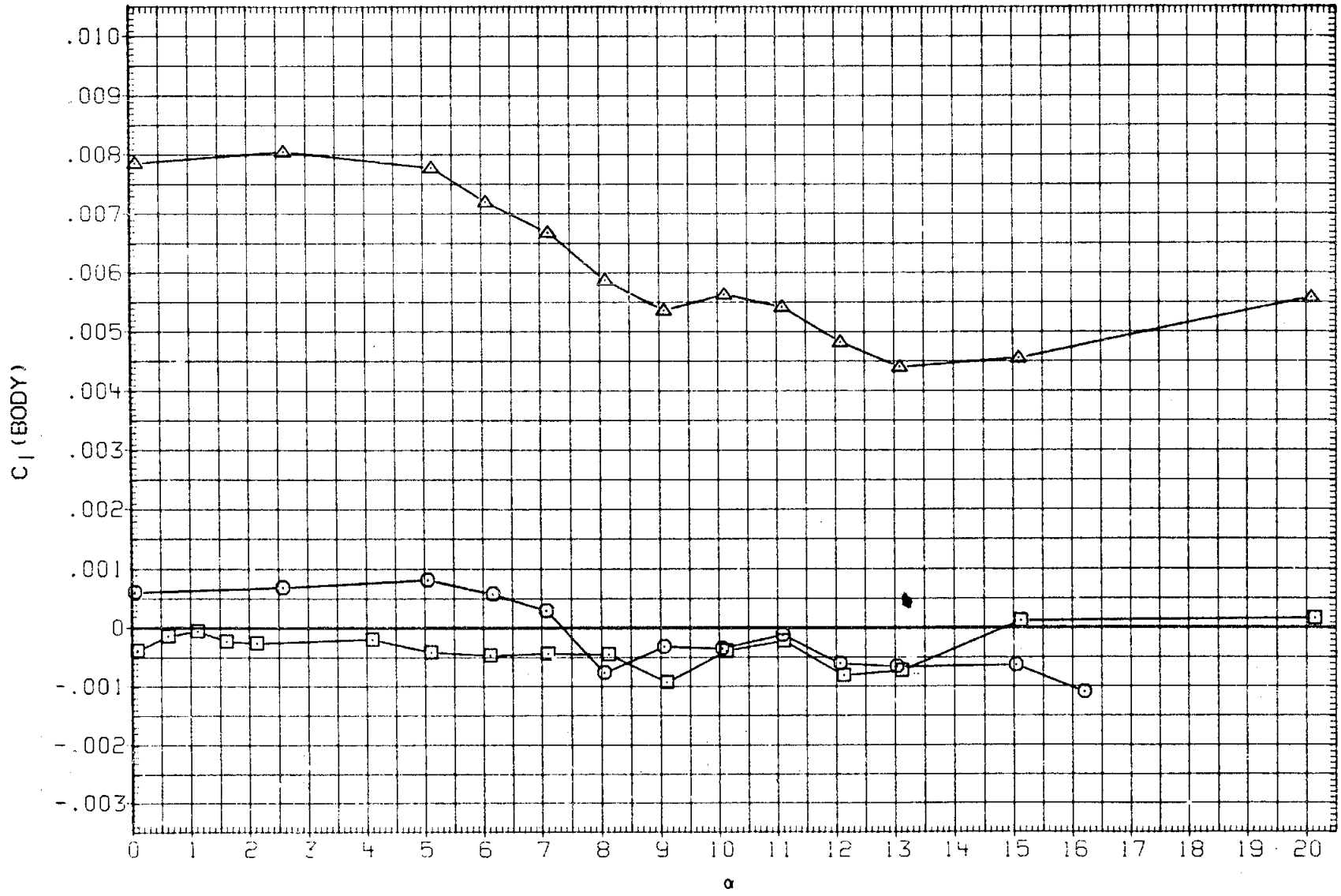

FIGURE 28. AILERON INTERACTION ON ELEVON EFFECT

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
RKN025	◇	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	.000
RK0008	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-2.400	2.400	.000	25.500	-.030	.000
RKN023	◺	DATA NOT AVAILABLE	.000	-5.000	3.000	.000	25.000	.000	.000
RKN027	◻	DATA NOT AVAILABLE	.000	5.000	3.000	.000	25.000	.000	.000

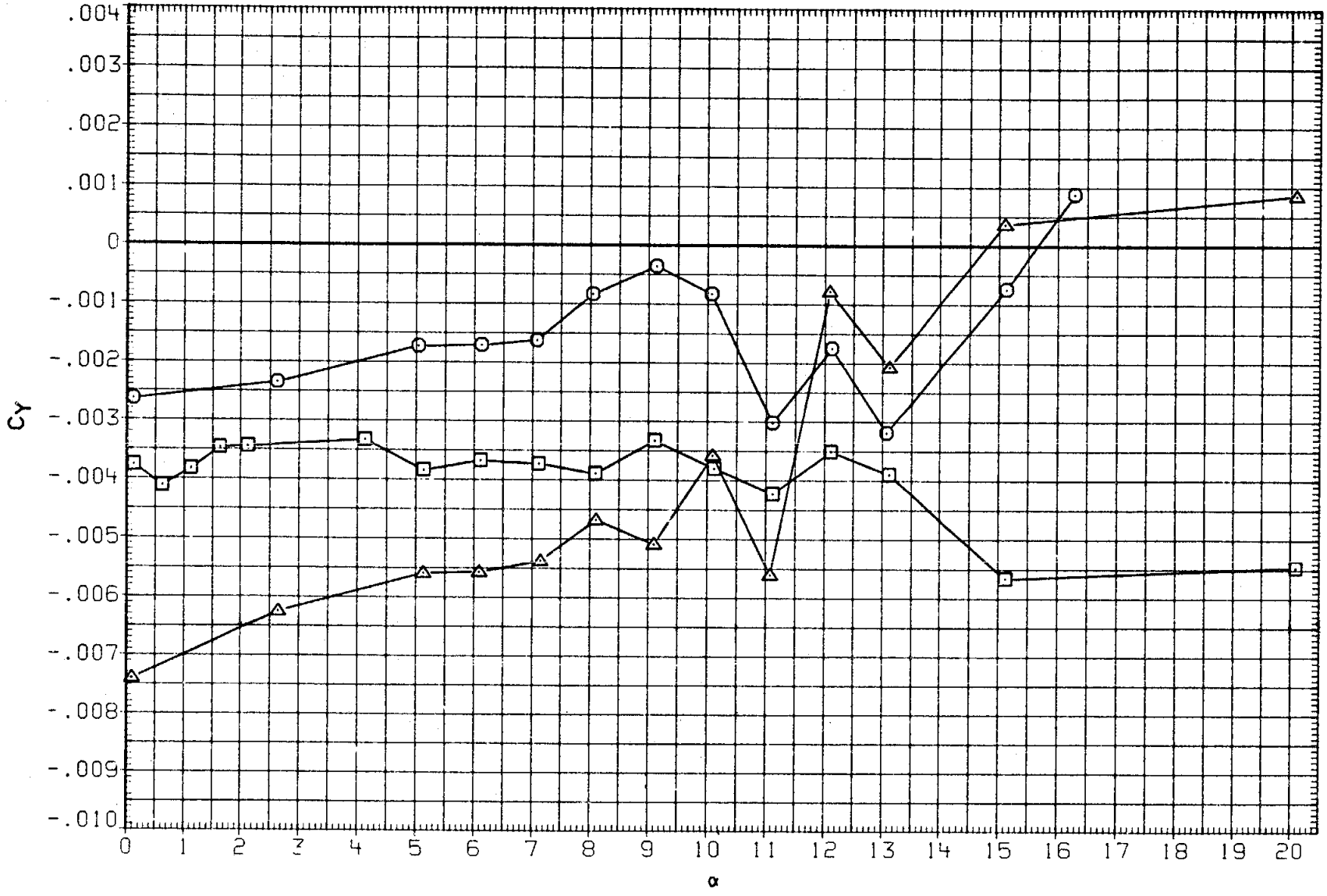

FIGURE 28. AILERON INTERACTION ON ELEVON EFFECT

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
RKN025	◇	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	.000
RK0008	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-2.400	2.400	.000	25.500	-.030	.000
RKN023	◺	DATA NOT AVAILABLE	.000	-5.000	3.000	.000	25.000	.000	.000
RKN027	⬠	DATA NOT AVAILABLE	.000	5.000	3.000	.000	25.000	.000	.000

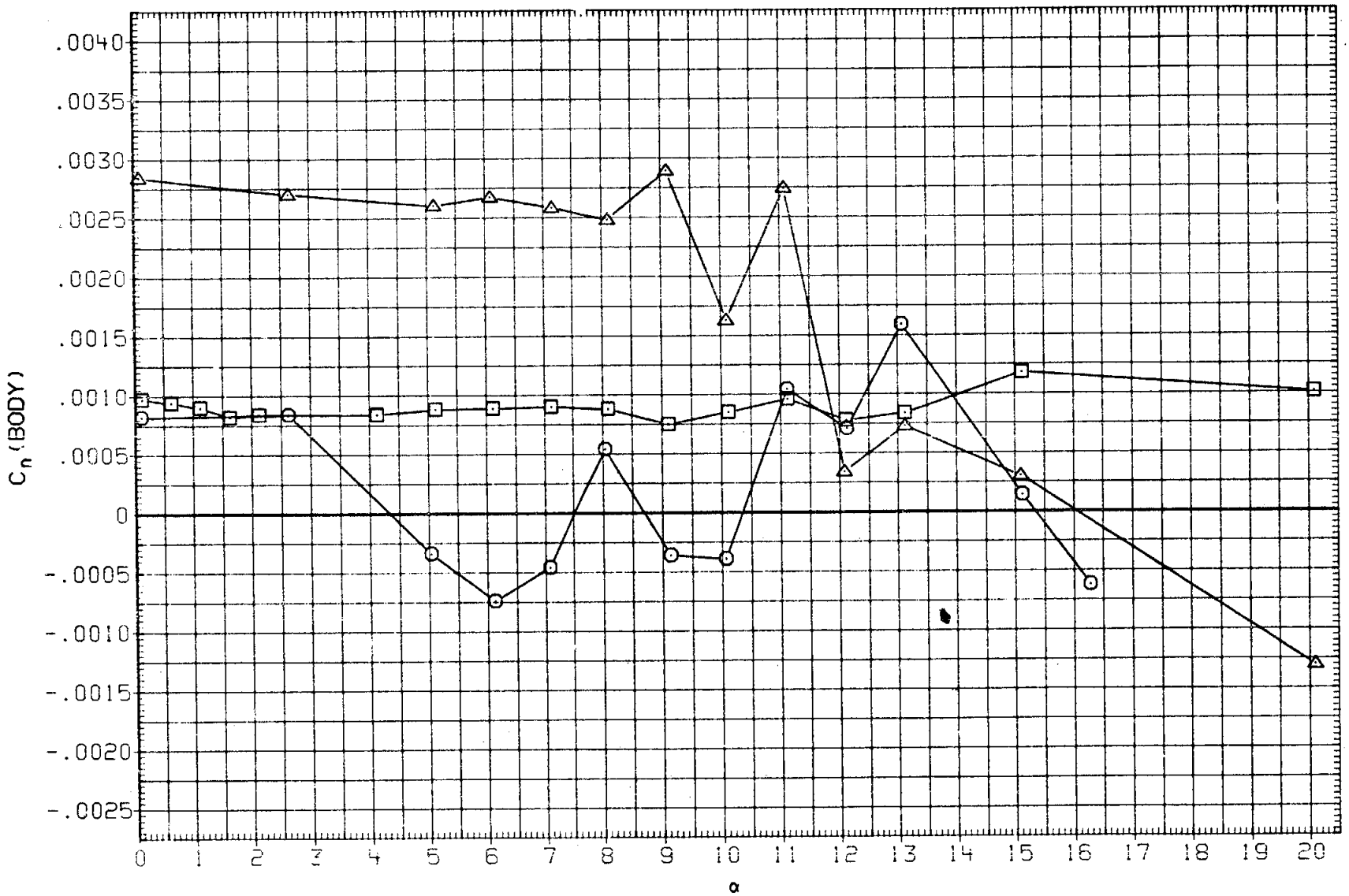

FIGURE 28. AILERON INTERACTION ON ELEVON EFFECT

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
RKN025	◇	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	.000
RK0008	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-2.400	2.400	.000	25.500	-.030	.000
RKN023	◺	DATA NOT AVAILABLE	.000	-5.000	3.000	.000	25.000	.000	.000
RKN027	▱	DATA NOT AVAILABLE	.000	5.000	3.000	.000	25.000	.000	.000

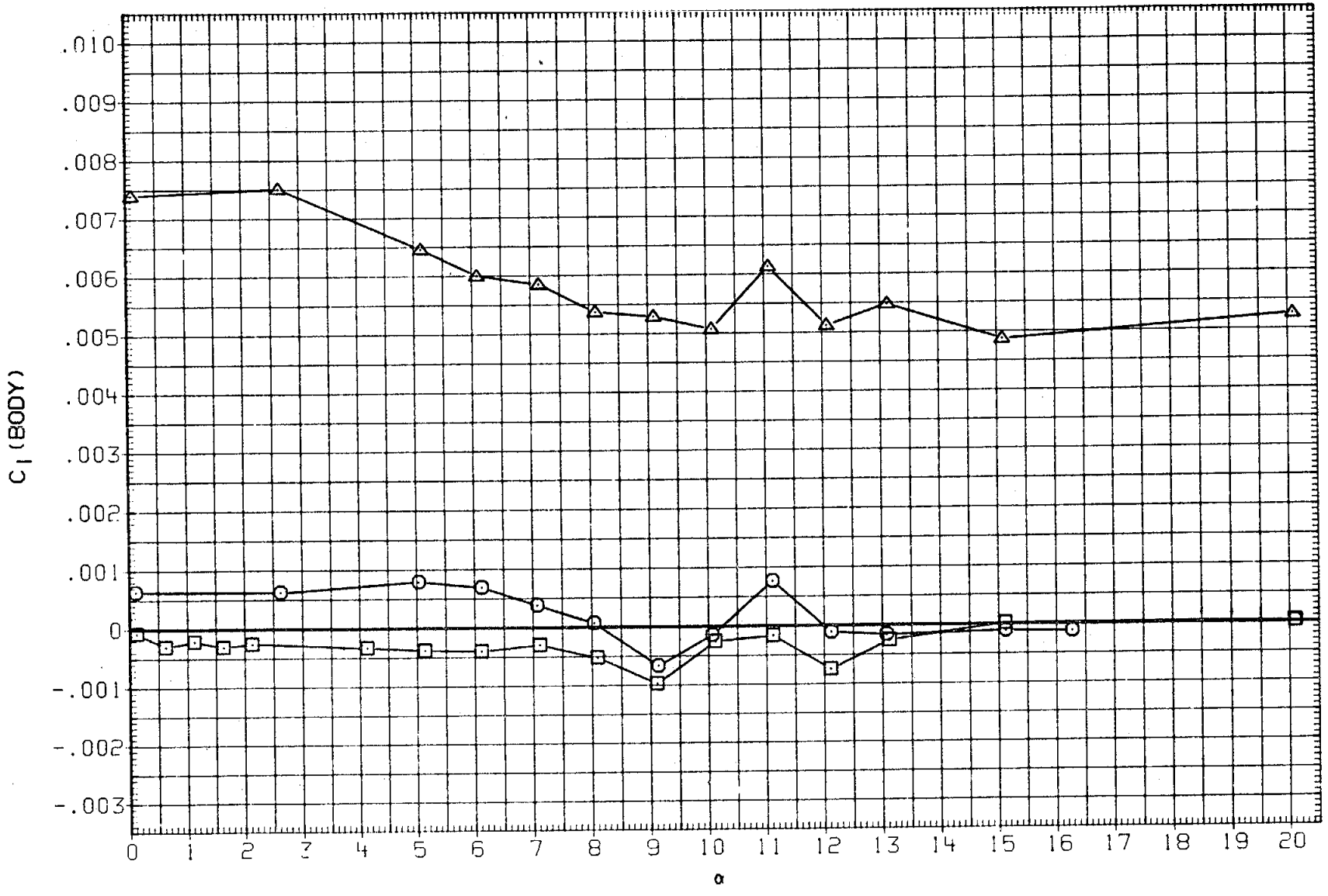

FIGURE 28. AILERON INTERACTION ON ELEVON EFFECT

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(0A270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
RKN025	◇	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	.000
RK0008	△	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	-2.400	2.400	.000	25.500	-.030	.000
RKN023	◁	DATA NOT AVAILABLE	.000	-5.000	3.000	.000	25.000	.000	.000
RKN027	▷	DATA NOT AVAILABLE	.000	5.000	3.000	.000	25.000	.000	.000

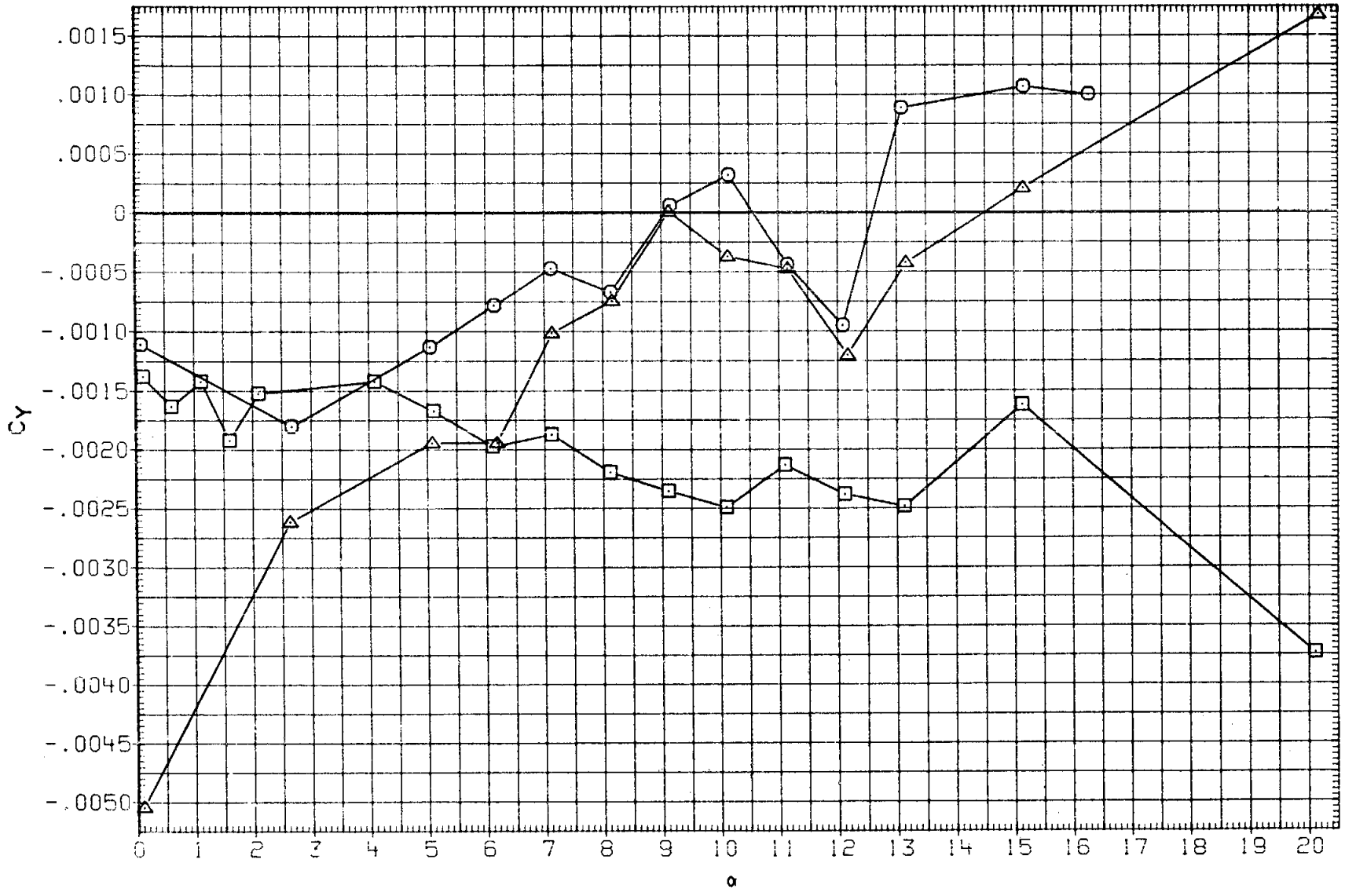

FIGURE 28. AILERON INTERACTION ON ELEVON EFFECT

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKO003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
RKN025	◇	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	.000
RKO008	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-2.400	2.400	.000	25.500	-.030	.000
RKN023	◺	DATA NOT AVAILABLE	.000	-5.000	3.000	.000	25.000	.000	.000
RKN027	◻	DATA NOT AVAILABLE	.000	5.000	3.000	.000	25.000	.000	.000

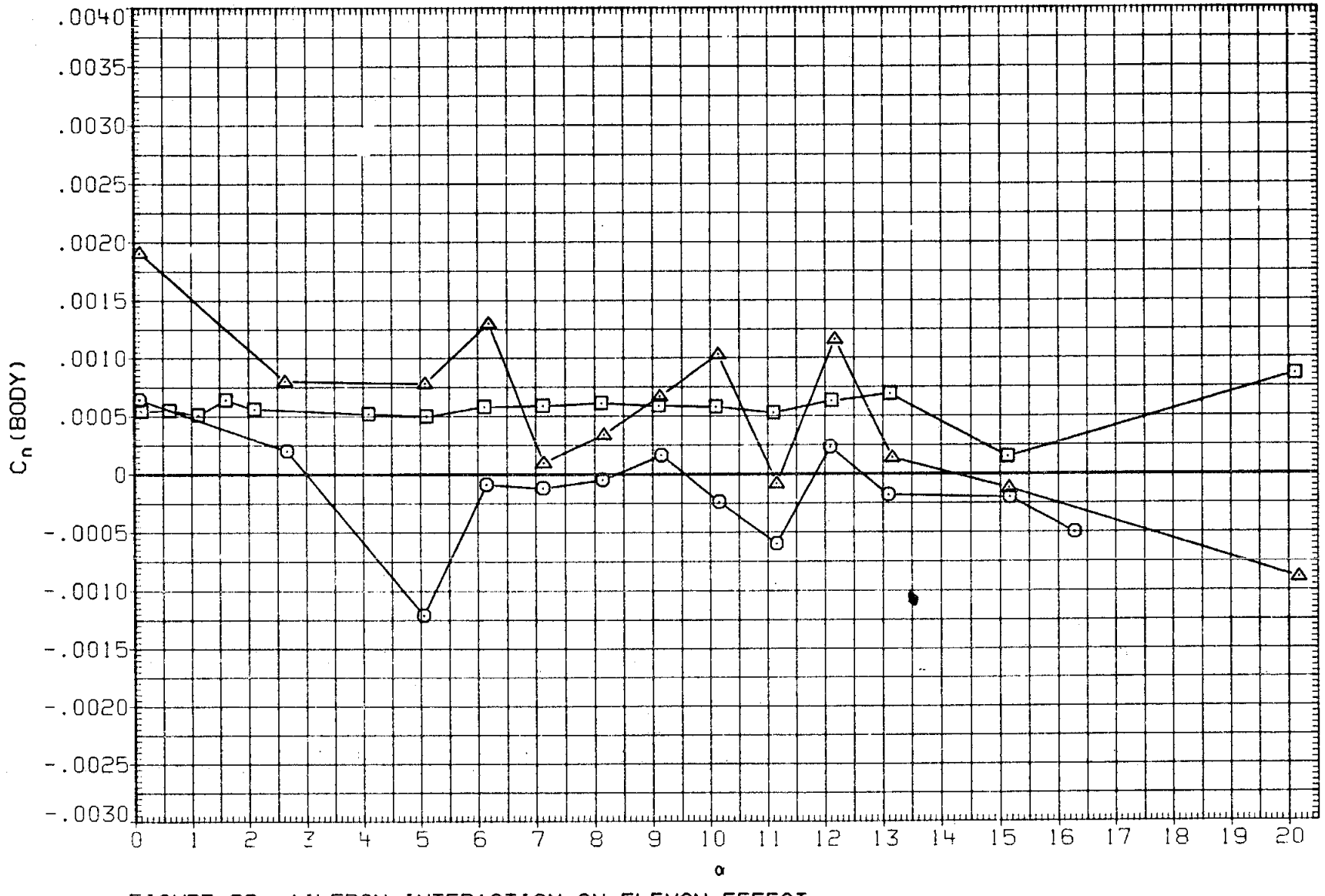

FIGURE 28. AILERON INTERACTION ON ELEVON EFFECT

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
RKN025	◇	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	.000
RK0008	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-2.400	2.400	.000	25.500	-.030	.000
RKN023	◺	DATA NOT AVAILABLE	.000	-5.000	3.000	.000	25.000	.000	.000
RKN027	◻	DATA NOT AVAILABLE	.000	5.000	3.000	.000	25.000	.000	.000

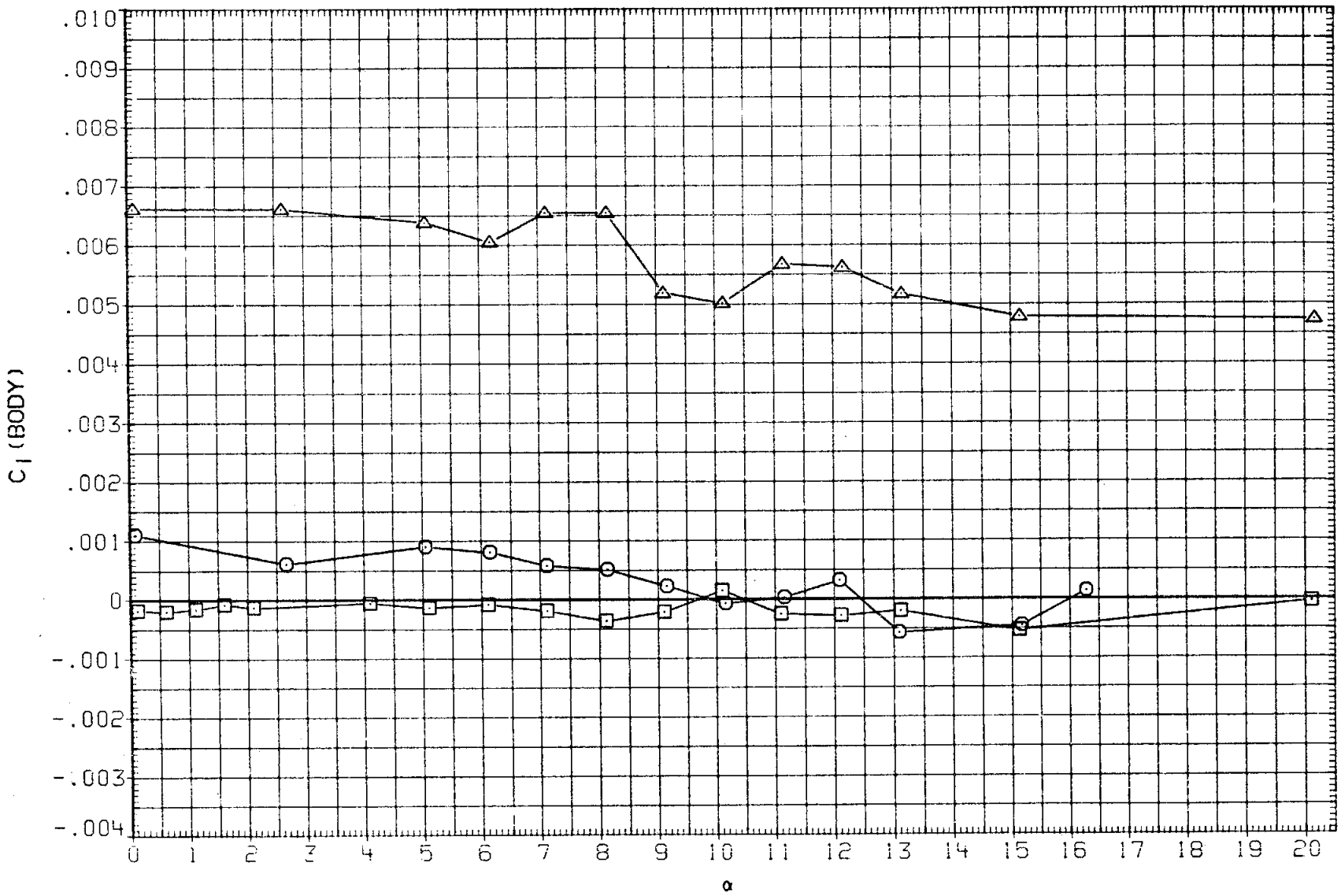

FIGURE 28. AILERON INTERACTION ON ELEVON EFFECT

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
RKN025	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	3.000	.000	25.000	.000	.000
RK0008	△	DATA NOT AVAILABLE	.000	-2.400	2.400	.000	25.500	-.030	.000
RKN023	◺	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	-5.000	3.000	.000	25.000	.000	.000
RKN027	D	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	5.000	3.000	.000	25.000	.000	.000

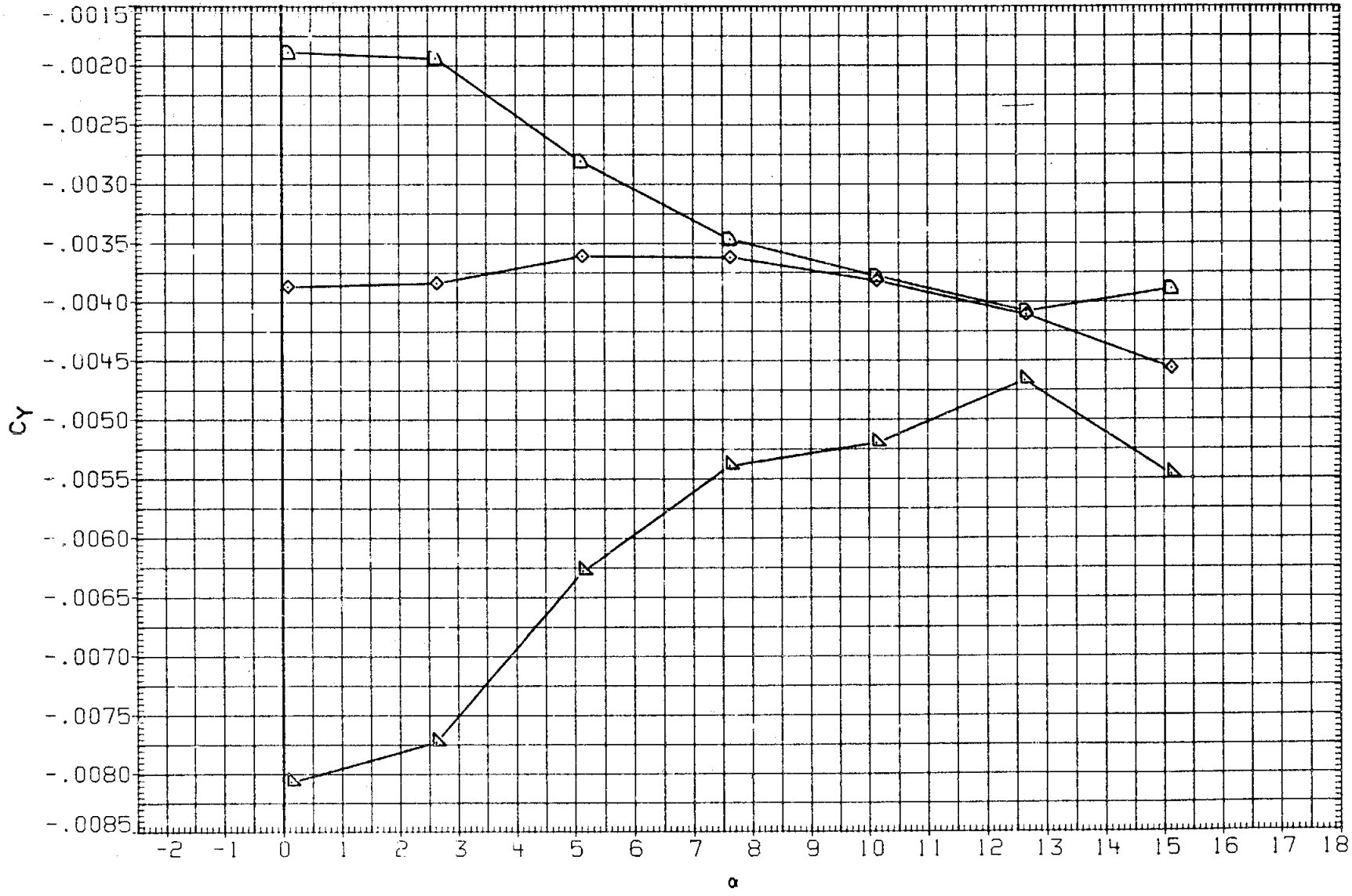

FIGURE 28. AILERON INTERACTION ON ELEVON EFFECT

(I)MACH = 1.27

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
RKN025	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	3.000	.000	25.000	.000	.000
RK0008	△	DATA NOT AVAILABLE	.000	-2.400	2.400	.000	25.500	-.030	.000
RKN023	◺	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	-5.000	3.000	.000	25.000	.000	.000
RKN027	◻	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	5.000	3.000	.000	25.000	.000	.000

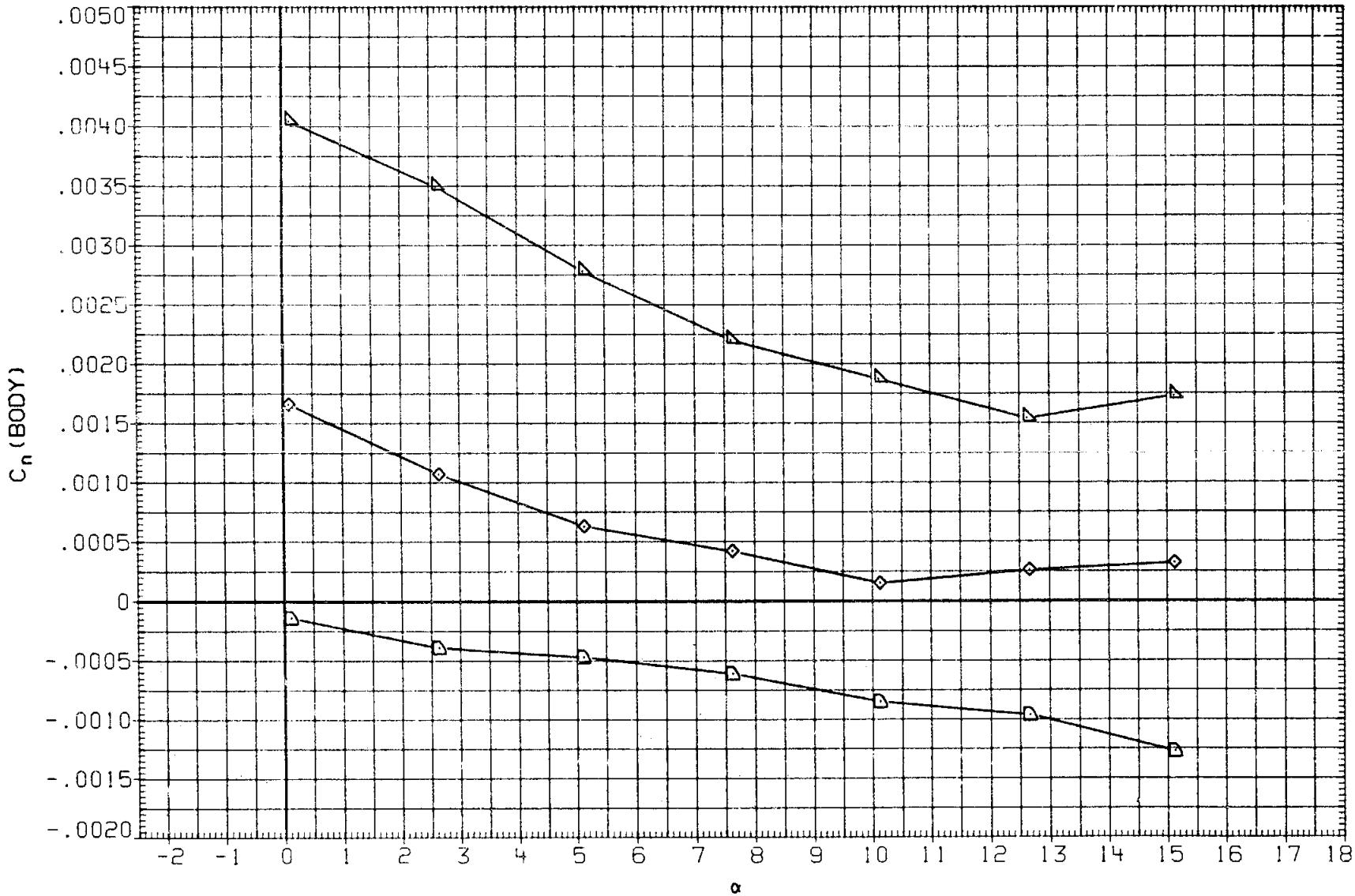

FIGURE 28. AILERON INTERACTION ON ELEVON EFFECT

(I)MACH = 1.27

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
RKN025	◇	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	3.000	.000	25.000	.000	.000
RK0008	△	DATA NOT AVAILABLE	.000	-2.400	2.400	.000	25.500	-.030	.000
RKN023	◺	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	-5.000	3.000	.000	25.000	.000	.000
RKN027	D	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	5.000	3.000	.000	25.000	.000	.000

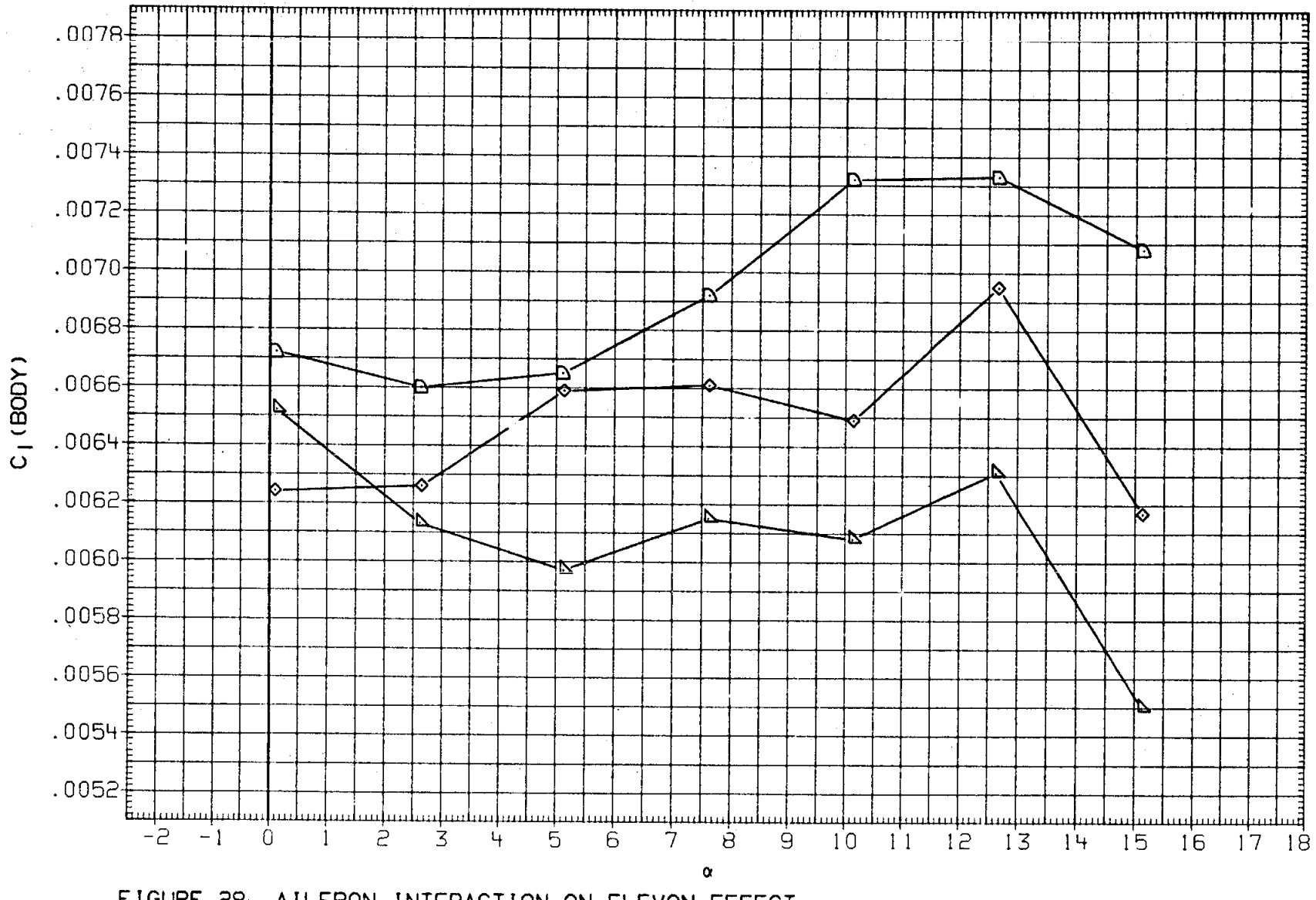

FIGURE 28. AILERON INTERACTION ON ELEVON EFFECT

(I)MACH = 1.27

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
RKN025	◇	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	.000
RK0008	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-2.400	2.400	.000	25.500	-.030	.000
RKN023	◭	DATA NOT AVAILABLE	.000	-5.000	3.000	.000	25.000	.000	.000
RKN027	◮	DATA NOT AVAILABLE	.000	5.000	3.000	.000	25.000	.000	.000

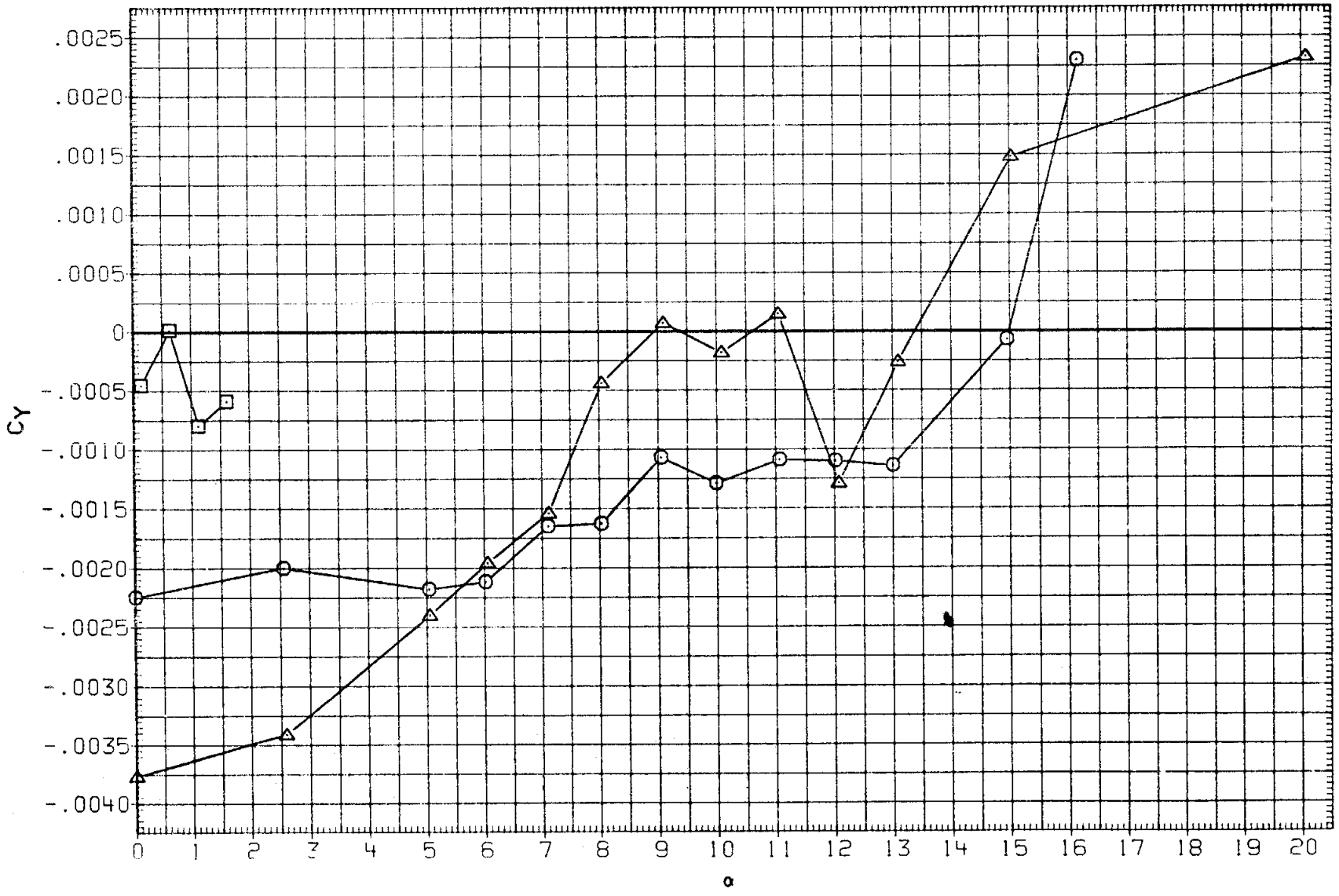

FIGURE 28. AILERON INTERACTION ON ELEVON EFFECT

(J)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
RKN025	◇	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	.000
RK0008	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-2.400	2.400	.000	25.500	-.030	.000
RKN023	◺	DATA NOT AVAILABLE	.000	-5.000	3.000	.000	25.000	.000	.000
RKN027	◻	DATA NOT AVAILABLE	.000	5.000	3.000	.000	25.000	.000	.000

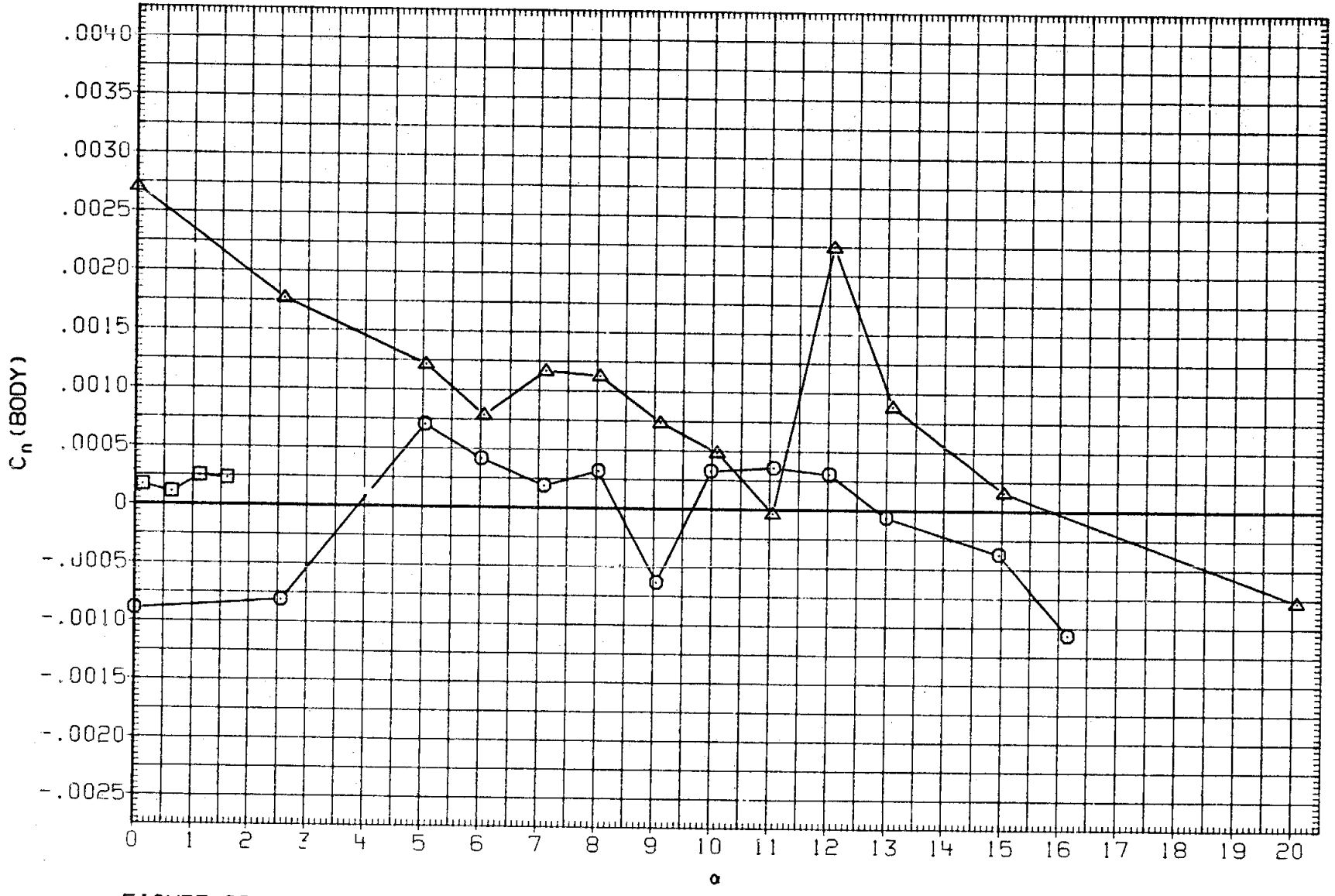

FIGURE 28. AILERON INTERACTION ON ELEVON EFFECT

(J)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RKN017	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	.000	.000	.000	.000	25.000	.000	.000
RKN025	◇	DATA NOT AVAILABLE	.000	.000	3.000	.000	25.000	.000	.000
RK0008	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-2.400	2.400	.000	25.500	-.030	.000
RKN023	◸	DATA NOT AVAILABLE	.000	-5.000	3.000	.000	25.000	.000	.000
RKN027	◗	DATA NOT AVAILABLE	.000	5.000	3.000	.000	25.000	.000	.000

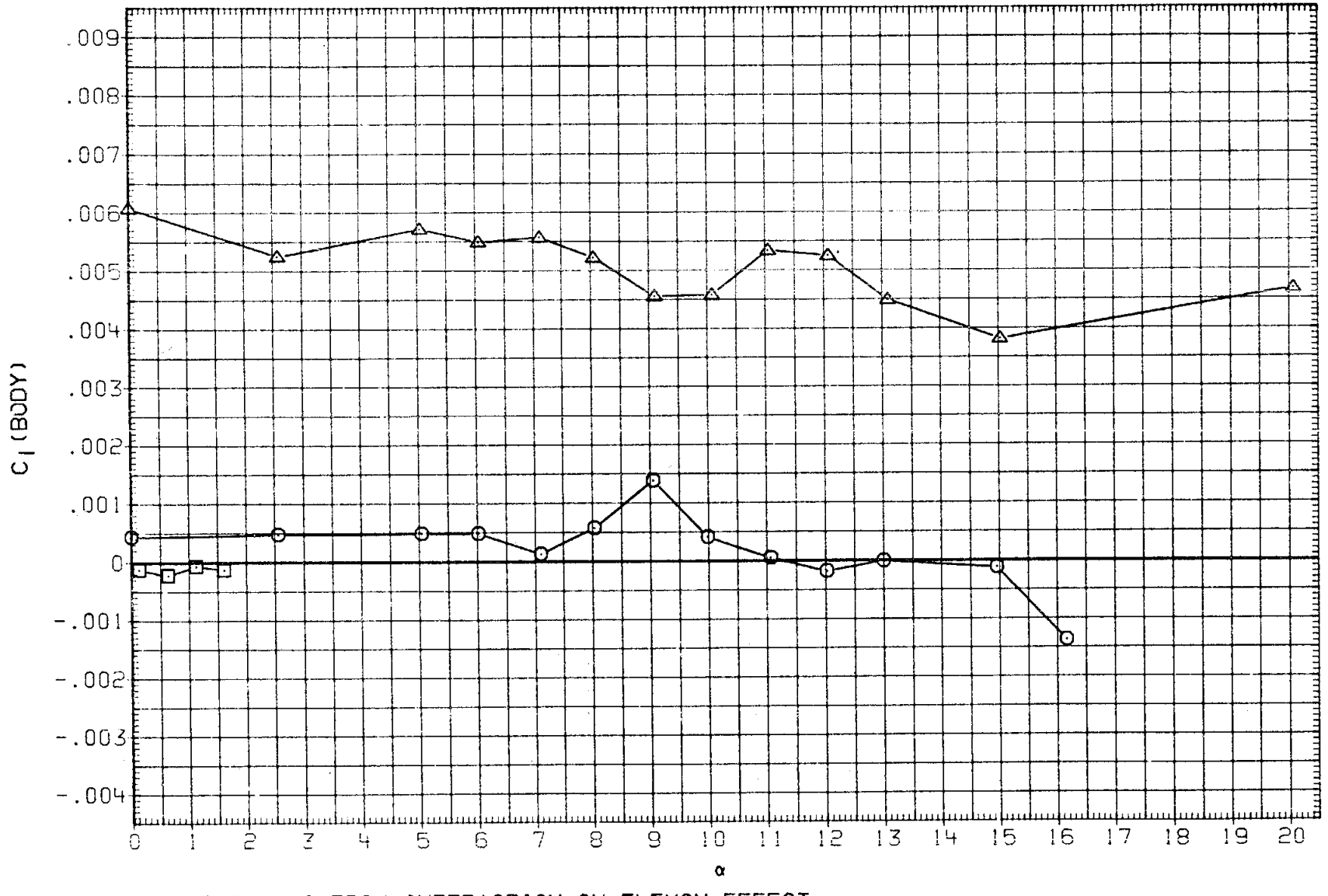

FIGURE 28. AILERON INTERACTION ON ELEVON EFFECT

(J)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0007	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RK0010	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.690	4.690	.000	25.500	-.030	.000
RK0011	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	5.060	5.060	.000	25.500	-.030	.000

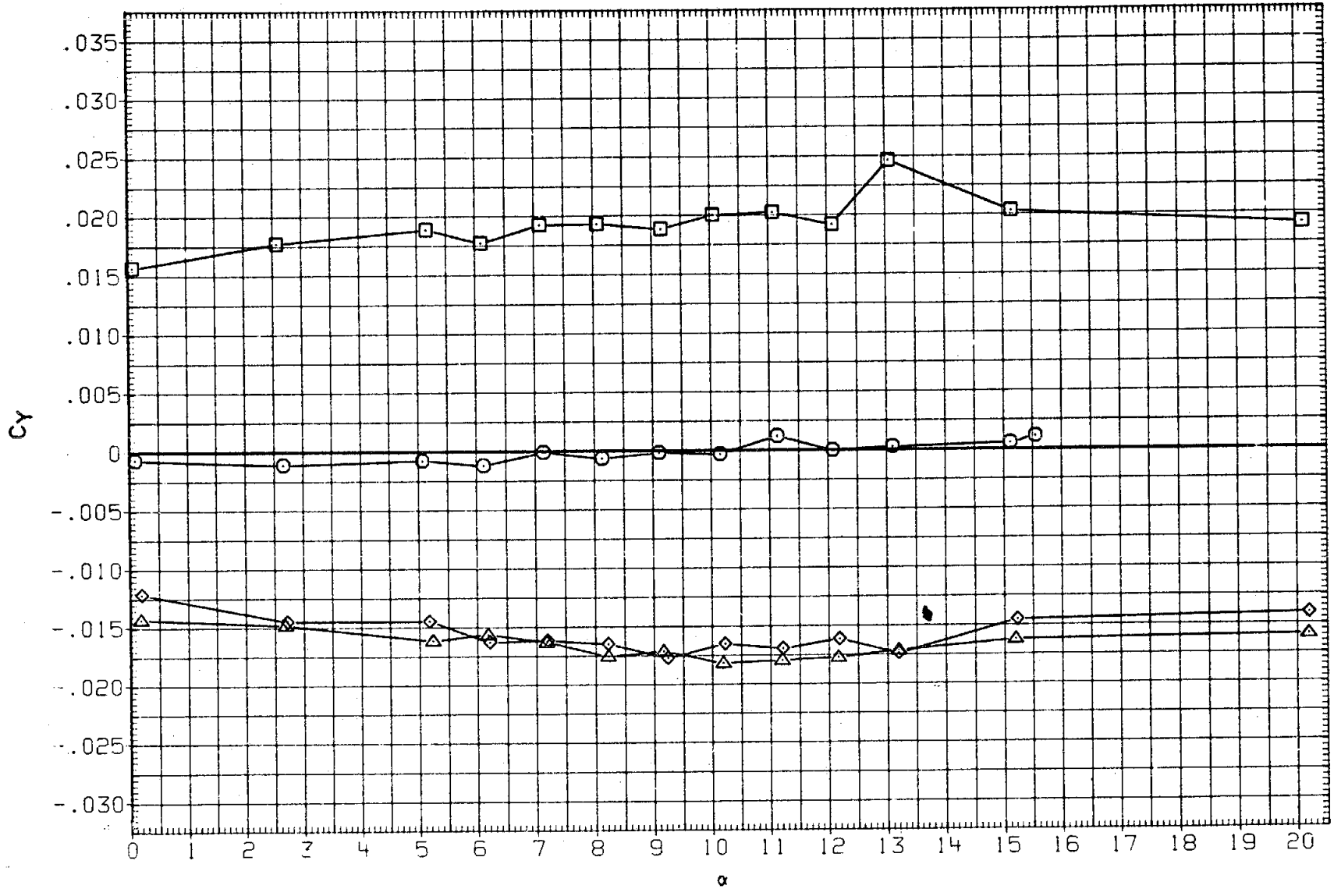

FIGURE 29. AILERON INTERACTION ON ELEVON EFFECT

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0007	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RK0010	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.690	4.690	.000	25.500	-.030	.000
RK0011	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	5.060	5.060	.000	25.500	-.030	.000

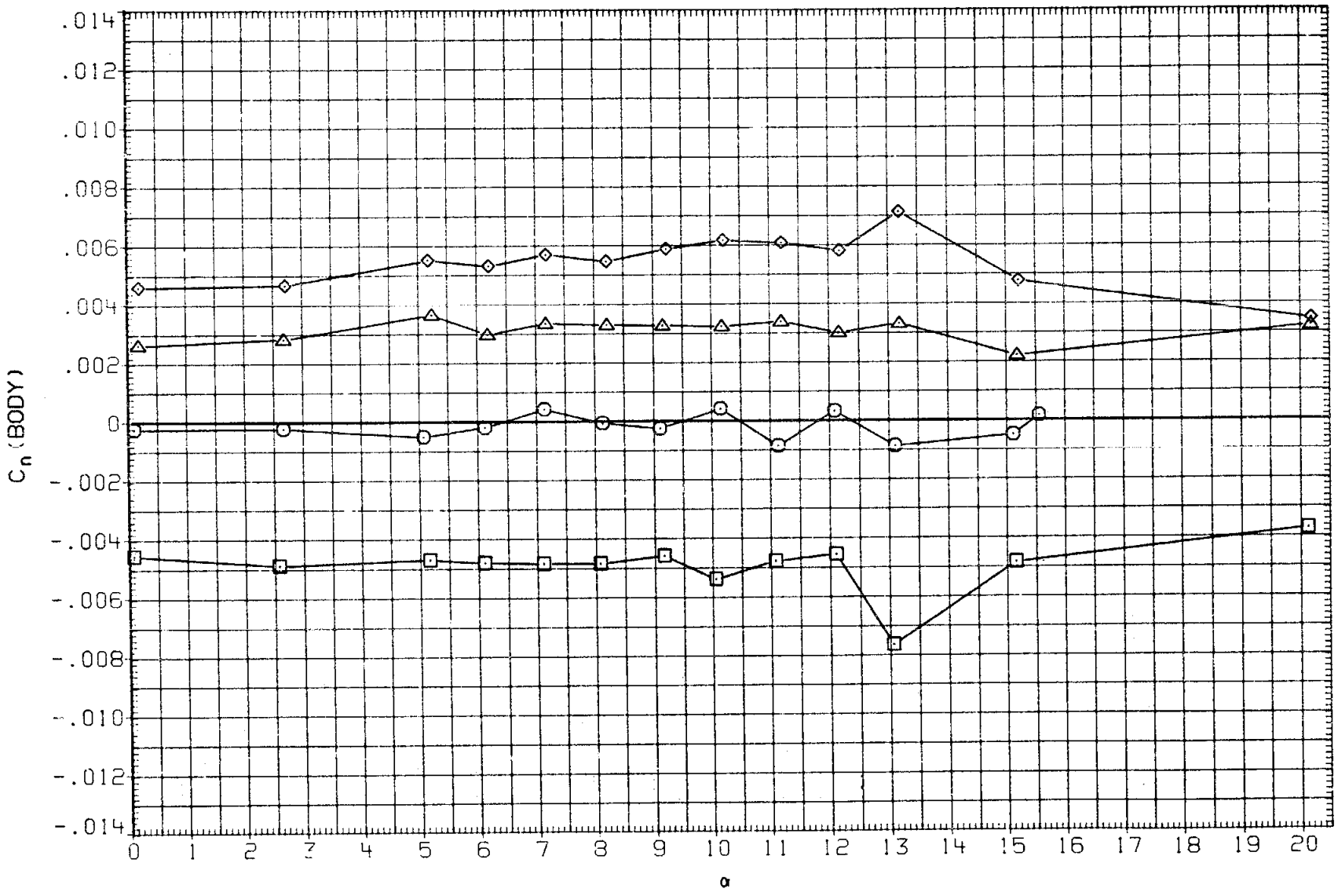

FIGURE 29. AILERON INTERACTION ON ELEVON EFFECT

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0007	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RK0010	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.690	4.690	.000	25.500	-.030	.000
RK0011	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	5.060	5.060	.000	25.500	-.030	.000

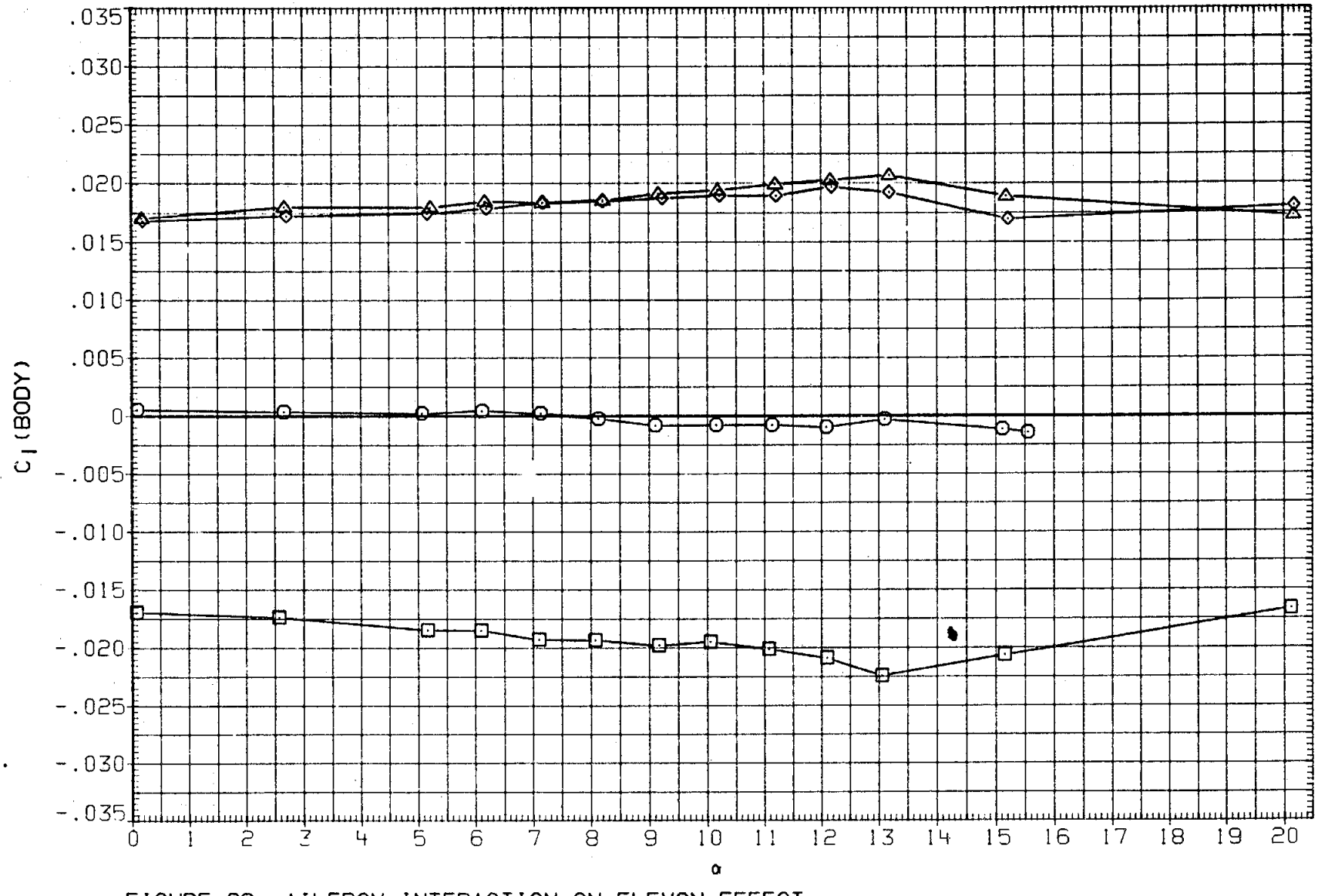

FIGURE 29. AILERON INTERACTION ON ELEVON EFFECT

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0007	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RK0010	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.690	4.690	.000	25.500	-.030	.000
RK0011	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	5.060	5.060	.000	25.500	-.030	.000

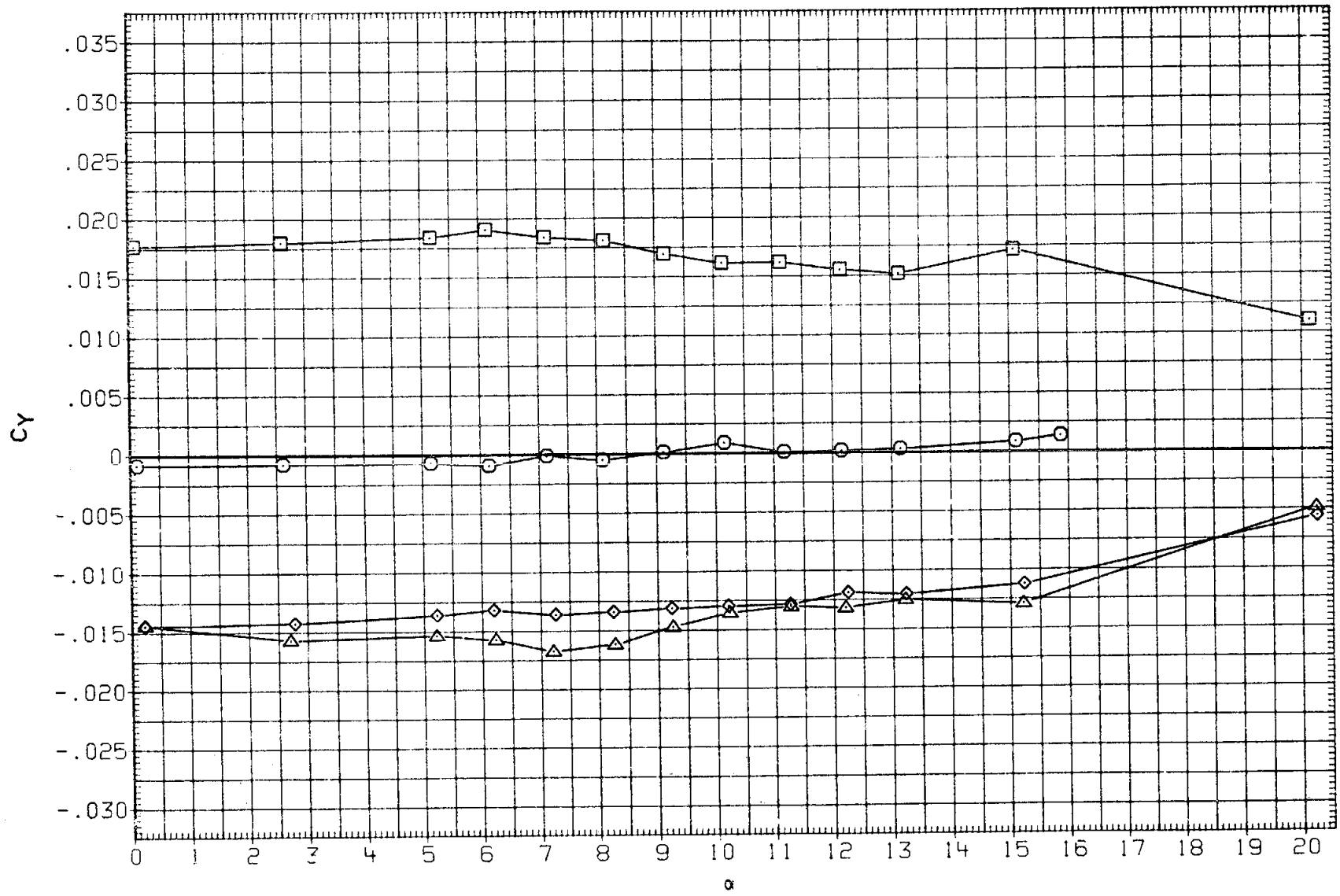

FIGURE 29. AILERON INTERACTION ON ELEVON EFFECT

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0007	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RK0010	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.690	4.690	.000	25.500	-.030	.000
RK0011	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	5.060	5.060	.000	25.500	-.030	.000

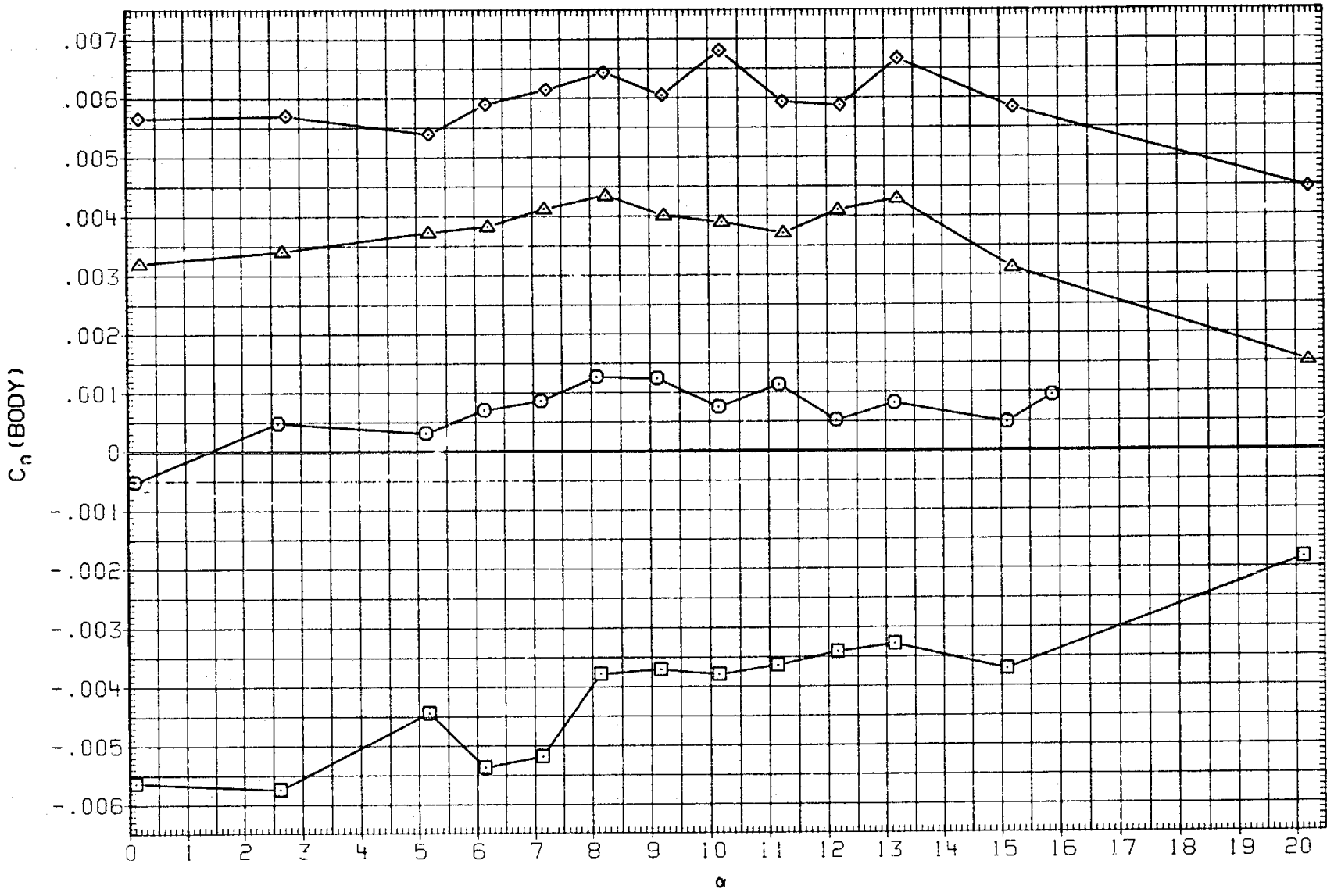

FIGURE 29. AILERON INTERACTION ON ELEVON EFFECT

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0007	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RK0010	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.690	4.690	.000	25.500	-.030	.000
RK0011	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	5.060	5.060	.000	25.500	-.030	.000

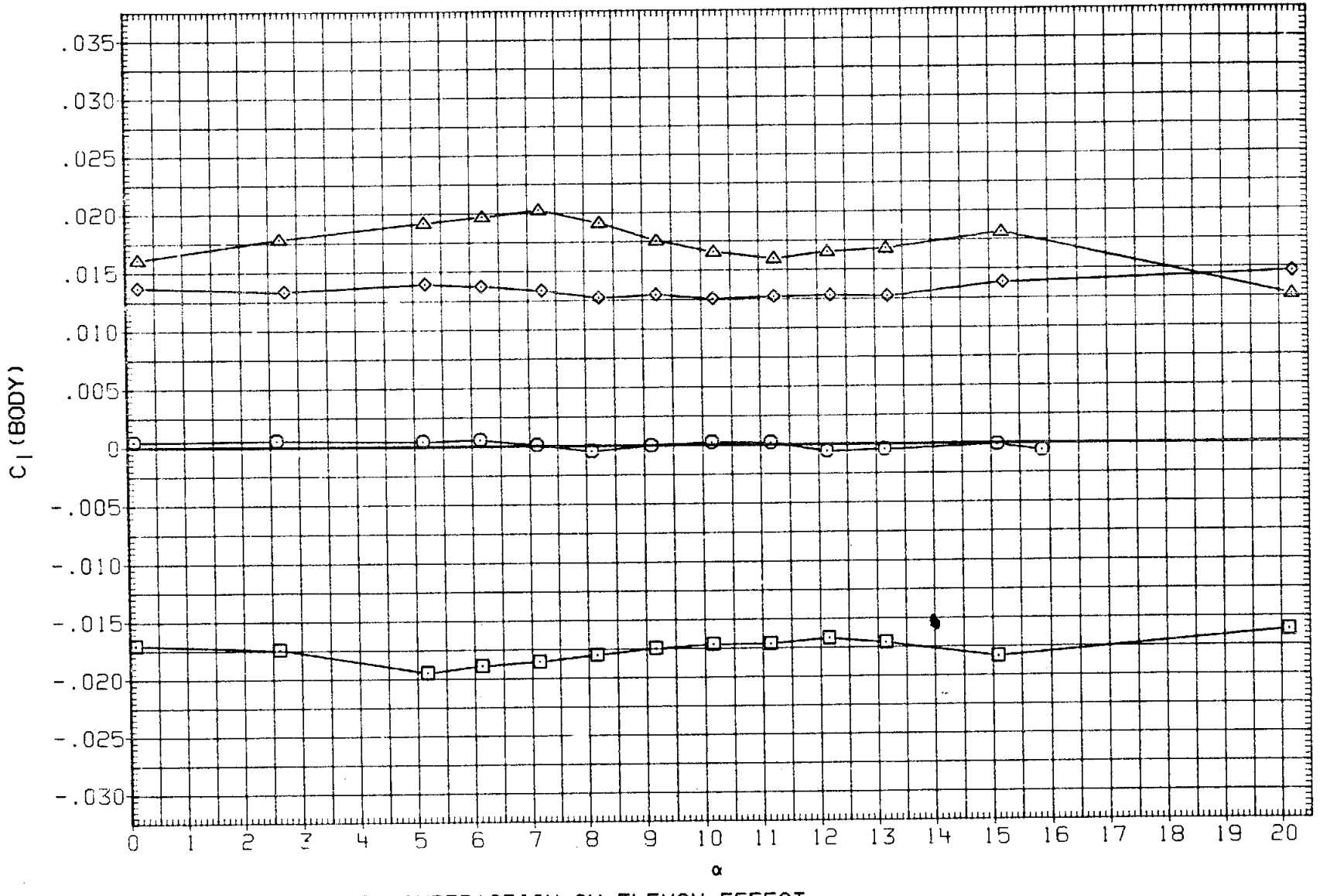

FIGURE 29. AILERON INTERACTION ON ELEVON EFFECT

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0007	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RK0010	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.690	4.690	.000	25.500	-.030	.000
RK0011	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	5.060	5.060	.000	25.500	-.030	.000

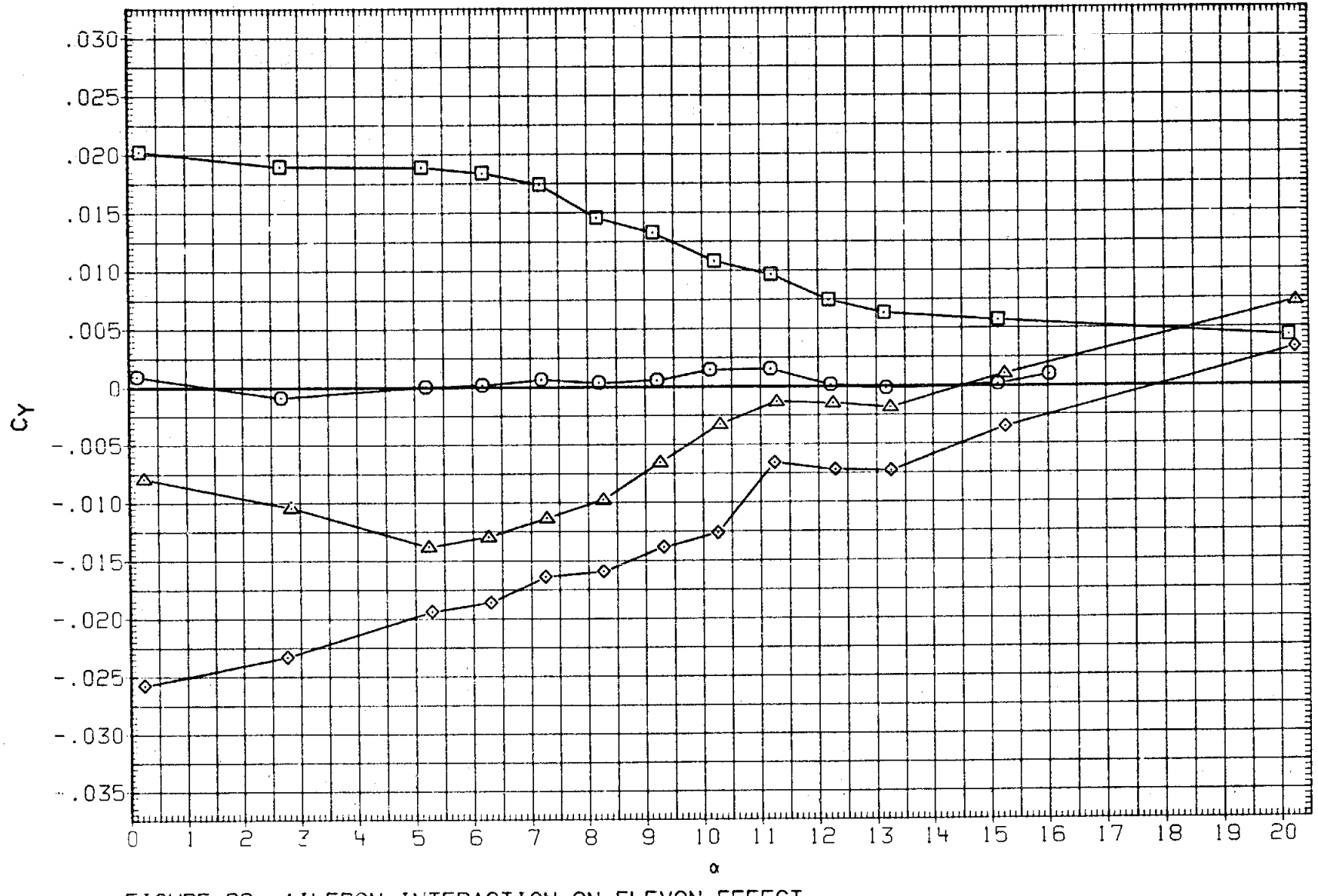

FIGURE 29. AILERON INTERACTION ON ELEVON EFFECT

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0007	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RK0010	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.690	4.690	.000	25.500	-.030	.000
RK0011	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	5.060	5.060	.000	25.500	-.030	.000

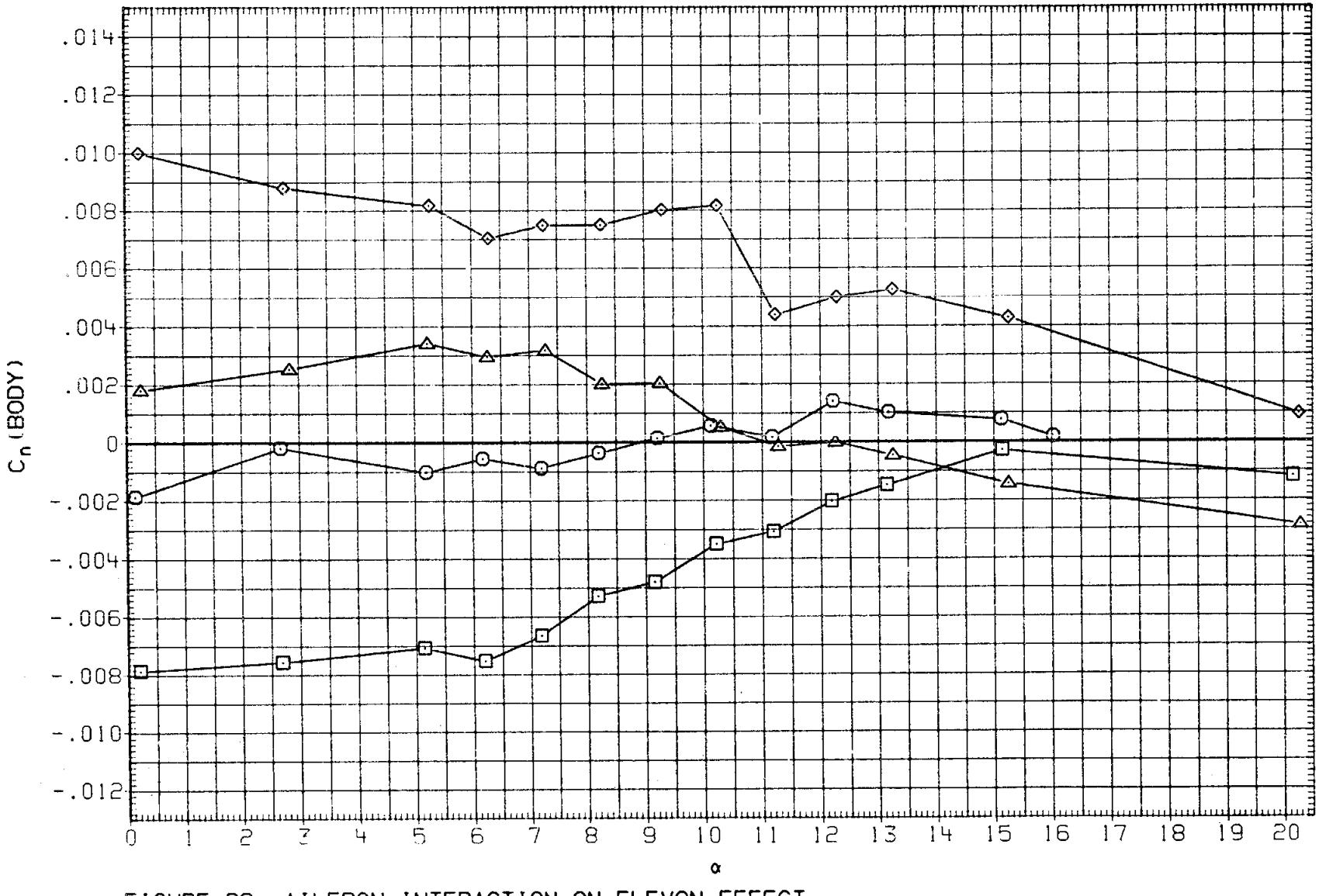

FIGURE 29. AILERON INTERACTION ON ELEVON EFFECT

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0007	□	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RK0010	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	-4.690	4.690	.000	25.500	-.030	.000
RK0011	△	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	5.060	5.060	.000	25.500	-.030	.000

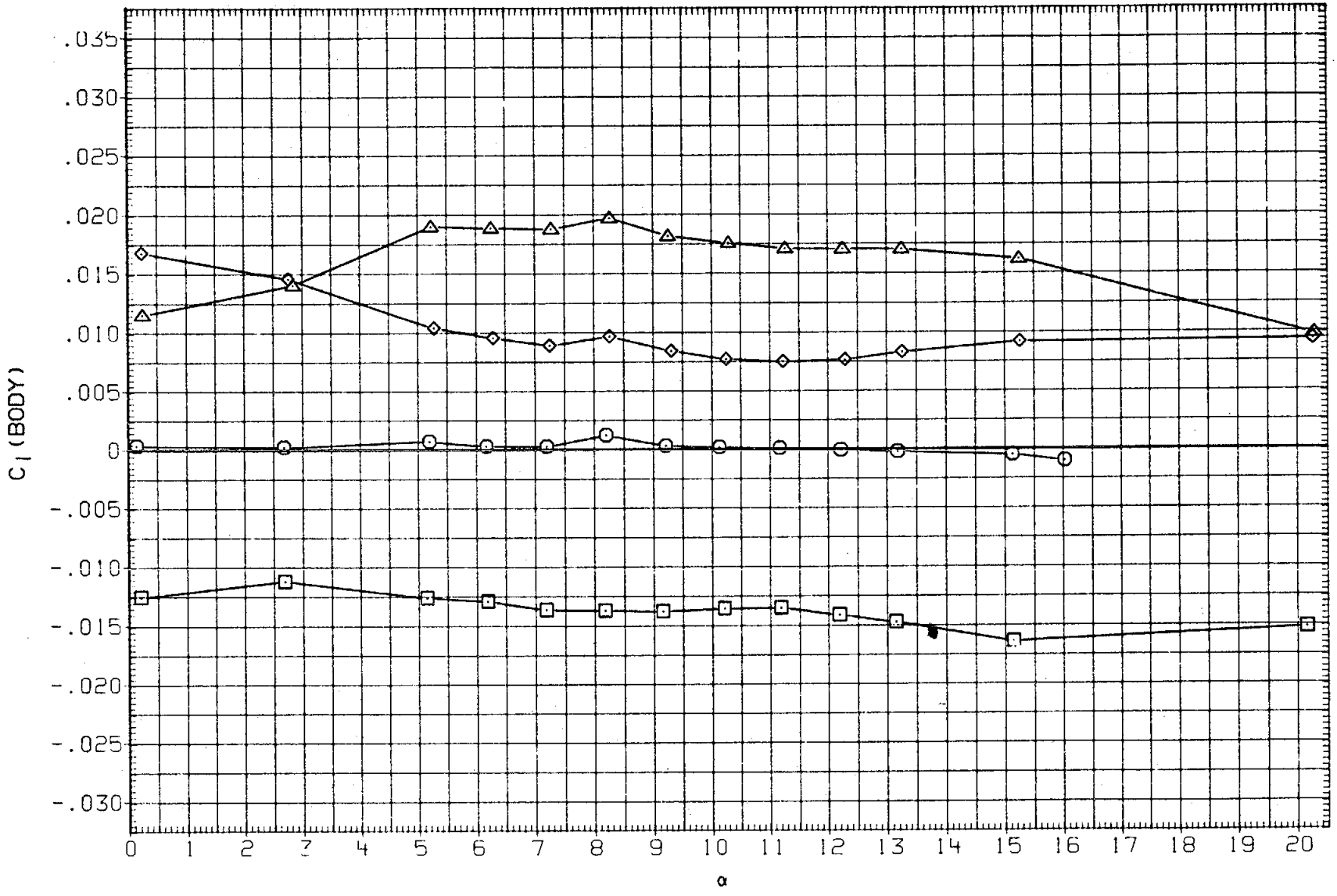

FIGURE 29. AILERON INTERACTION ON ELEVON EFFECT

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0007	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RK0010	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.690	4.690	.000	25.500	-.030	.000
RK0011	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	5.060	5.060	.000	25.500	-.030	.000

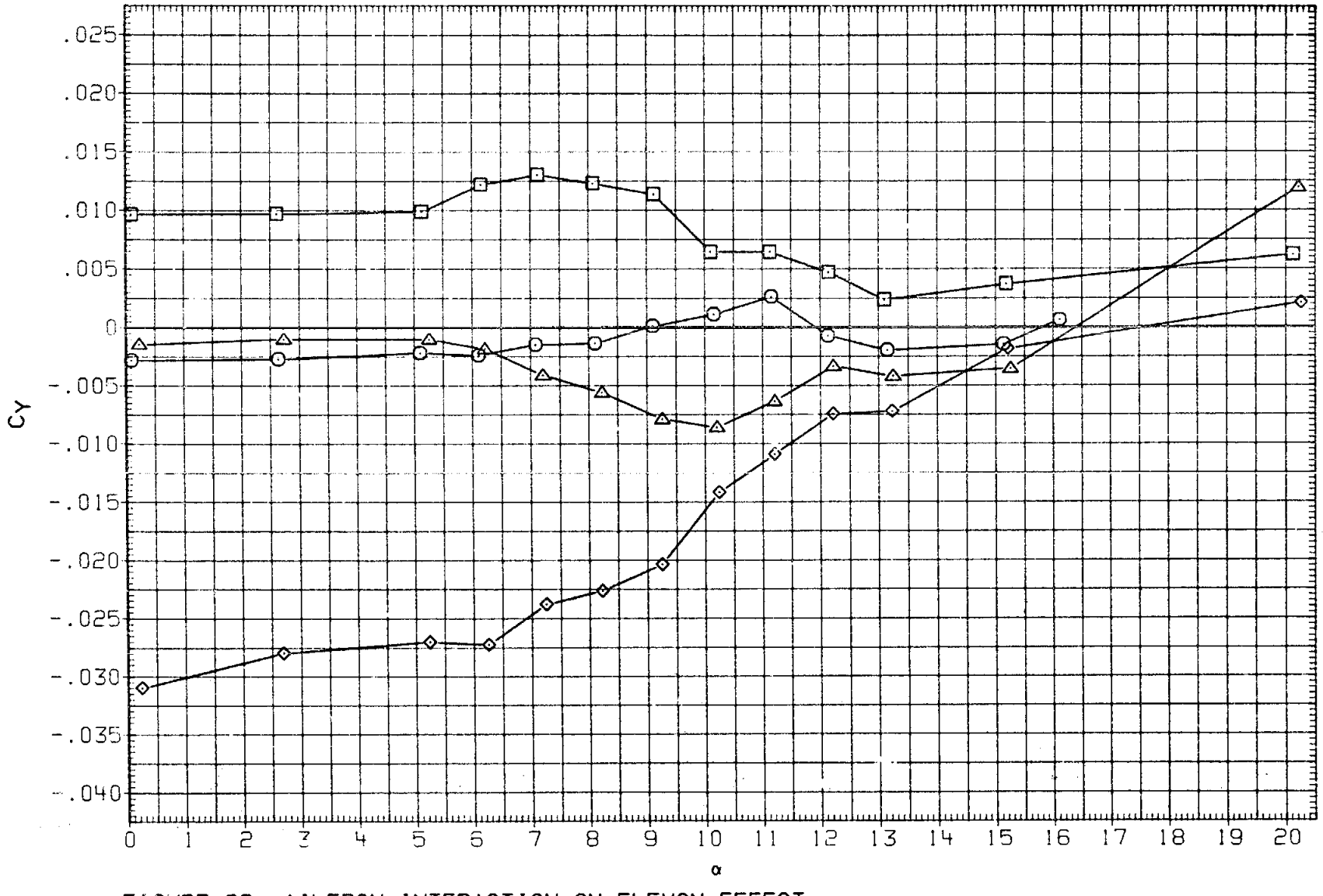

FIGURE 29. AILERON INTERACTION ON ELEVON EFFECT

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0007	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RK0010	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.690	4.690	.000	25.500	-.030	.000
RK0011	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	5.060	5.060	.000	25.500	-.030	.000

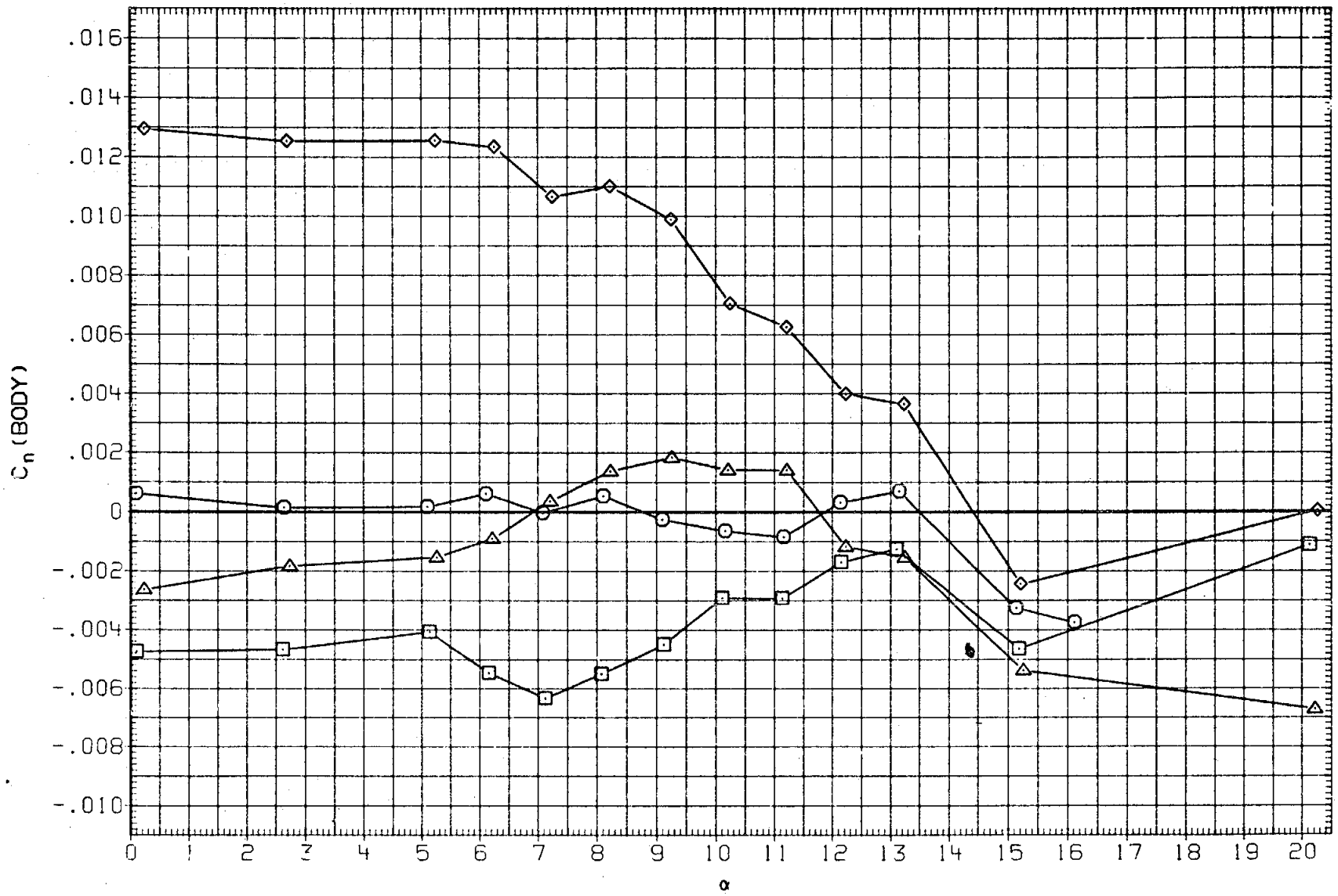

FIGURE 29. AILERON INTERACTION ON ELEVON EFFECT

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0007	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RK0010	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.690	4.690	.000	25.500	-.030	.000
RK0011	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	5.060	5.060	.000	25.500	-.030	.000

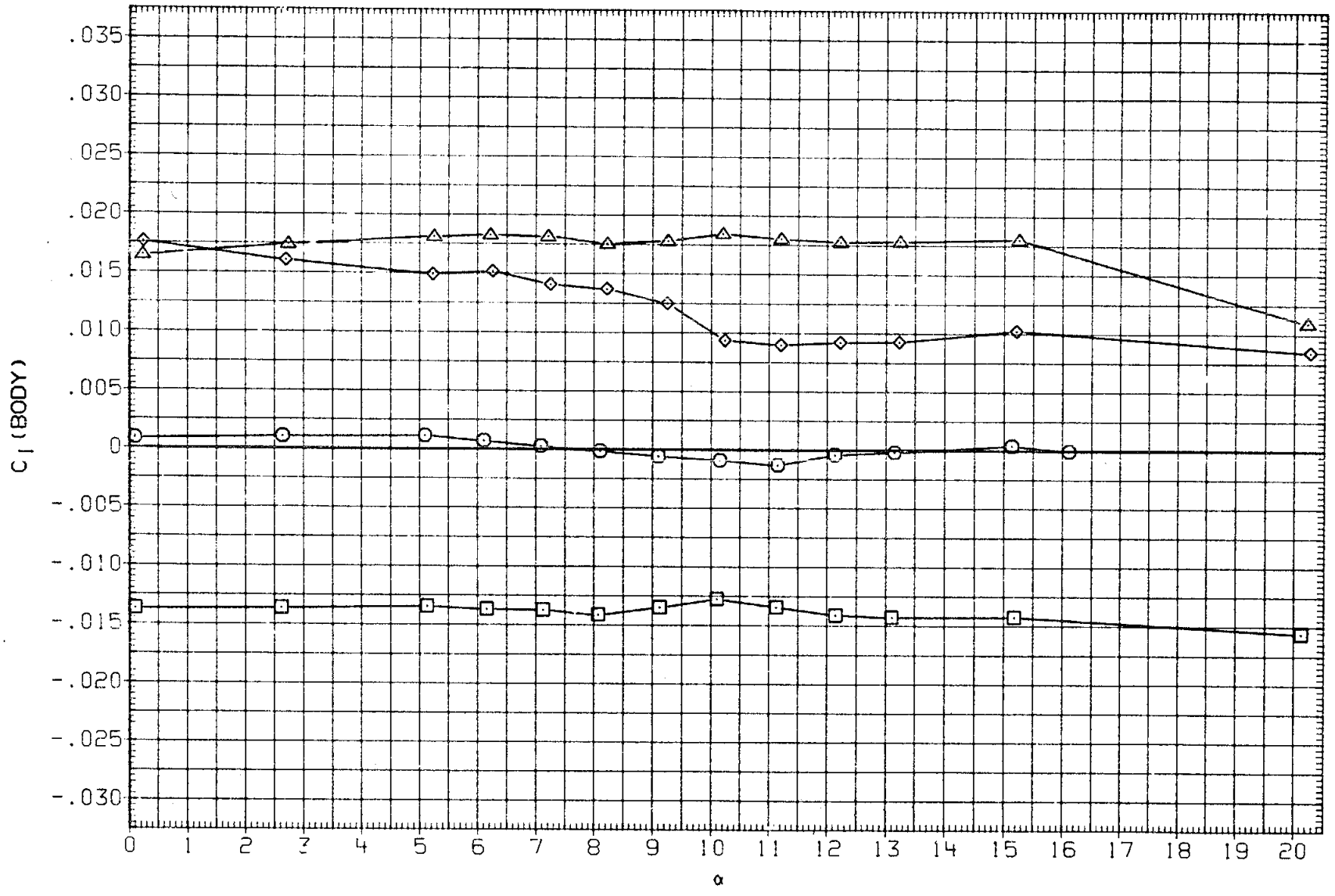

FIGURE 29. AILERON INTERACTION ON ELEVON EFFECT

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0007	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RK0010	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.690	4.690	.000	25.500	-.030	.000
RK0011	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	5.060	5.060	.000	25.500	-.030	.000

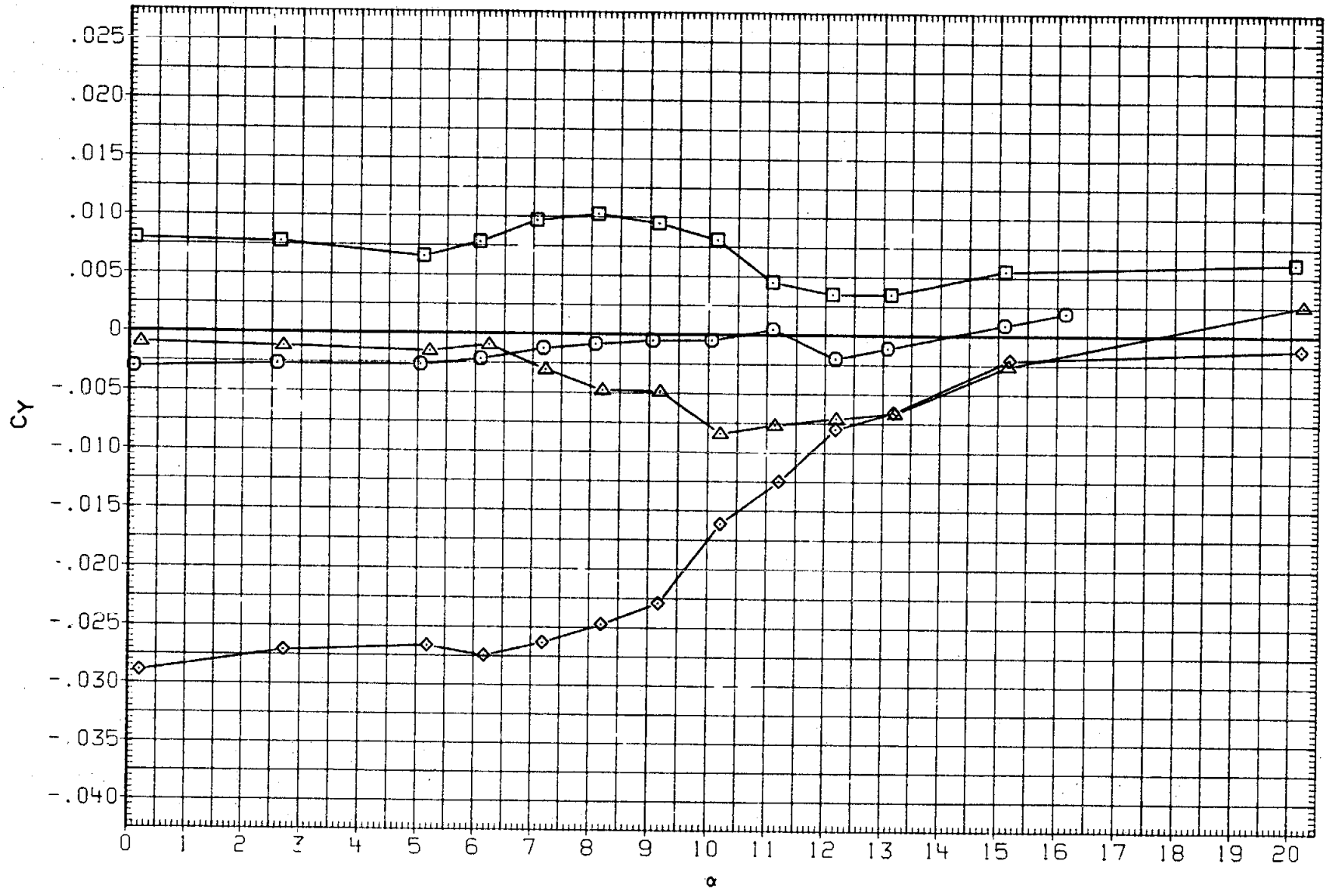

FIGURE 29. AILERON INTERACTION ON ELEVON EFFECT

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0007	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RK0010	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.690	4.690	.000	25.500	-.030	.000
RK0011	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	5.060	5.060	.000	25.500	-.030	.000

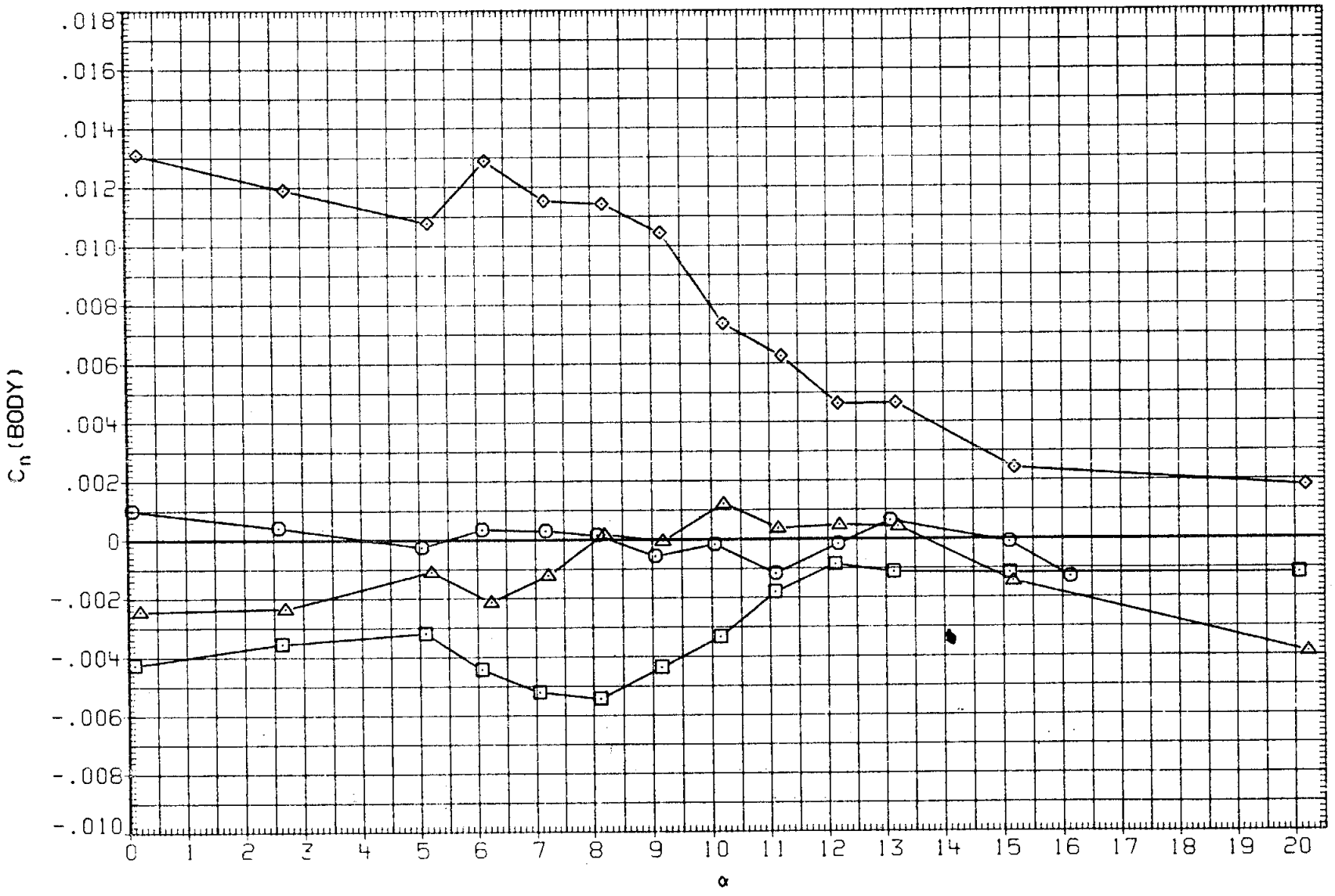

FIGURE 29. AILERON INTERACTION ON ELEVON EFFECT

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0007	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RK0010	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.690	4.690	.000	25.500	-.030	.000
RK0011	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	5.060	5.060	.000	25.500	-.030	.000

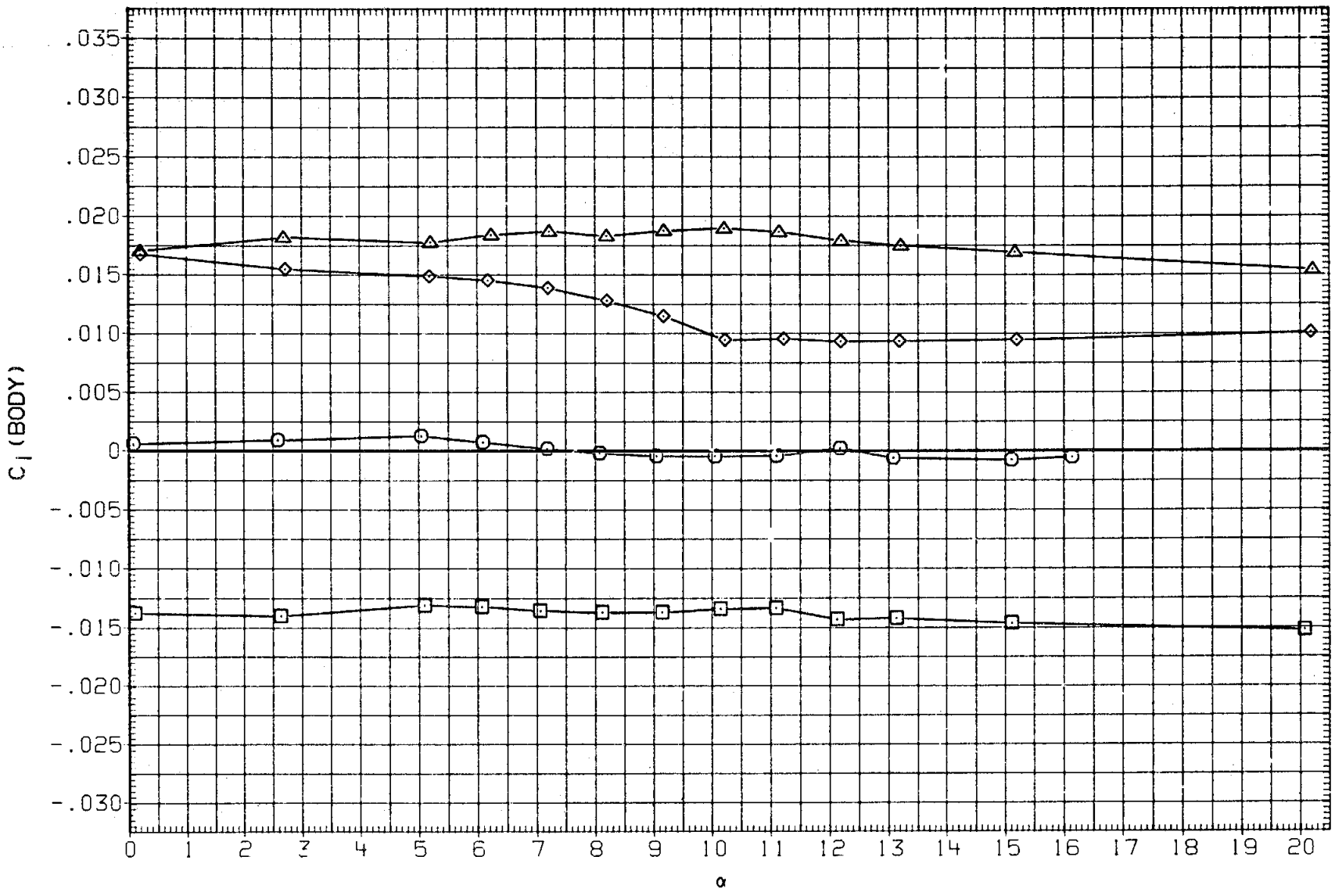

FIGURE 29. AILERON INTERACTION ON ELEVON EFFECT

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0007	□	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RK0010	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	-4.690	4.690	.000	25.500	-.030	.000
RK0011	△	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	5.060	5.060	.000	25.500	-.030	.000

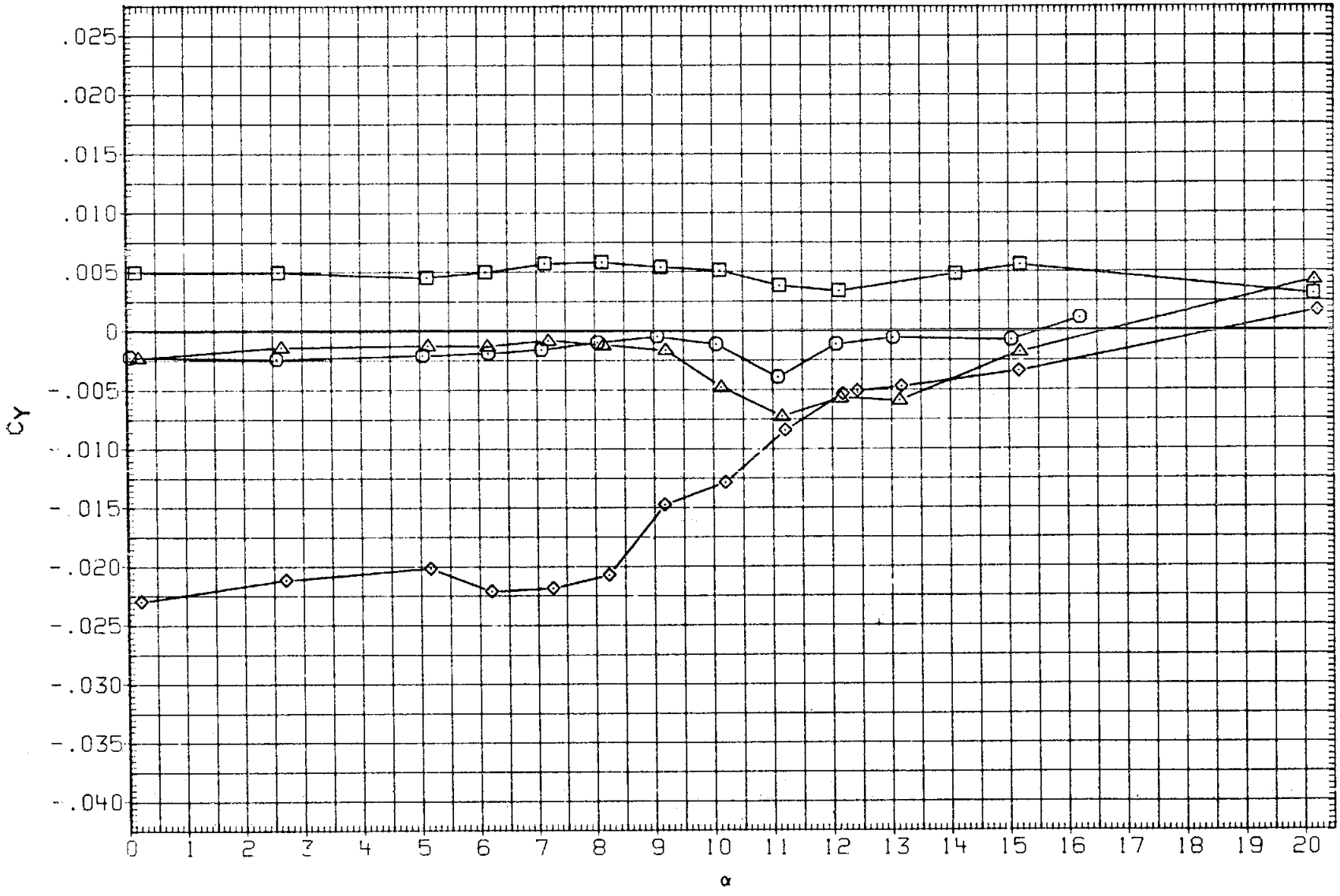

FIGURE 29. AILERON INTERACTION ON ELEVON EFFECT

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0007	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RK0010	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.690	4.690	.000	25.500	-.030	.000
RK0011	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	5.060	5.060	.000	25.500	-.030	.000

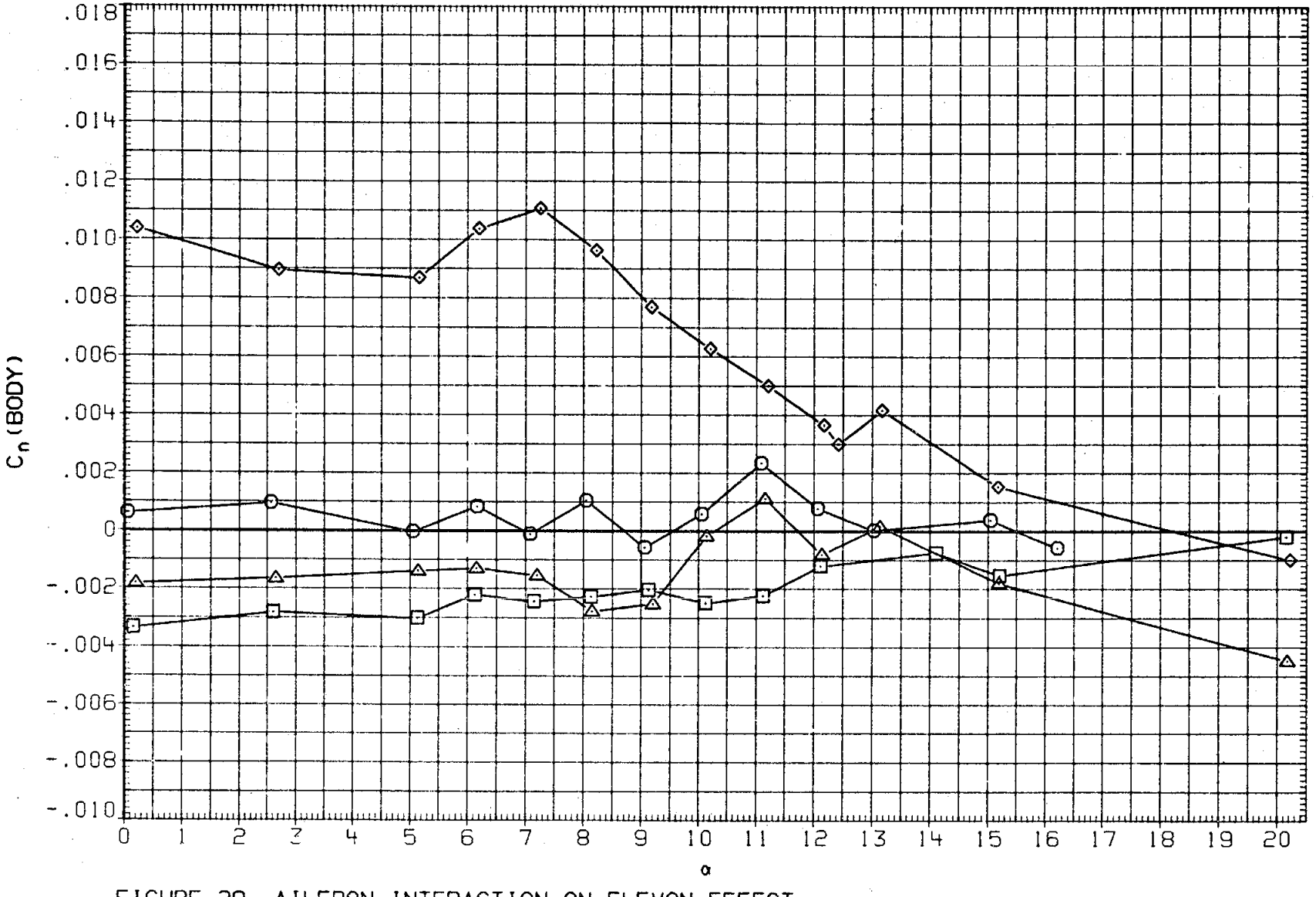

FIGURE 29. AILERON INTERACTION ON ELEVON EFFECT

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0007	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RK0010	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.690	4.690	.000	25.500	-.030	.000
RK0011	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	5.060	5.060	.000	25.500	-.030	.000

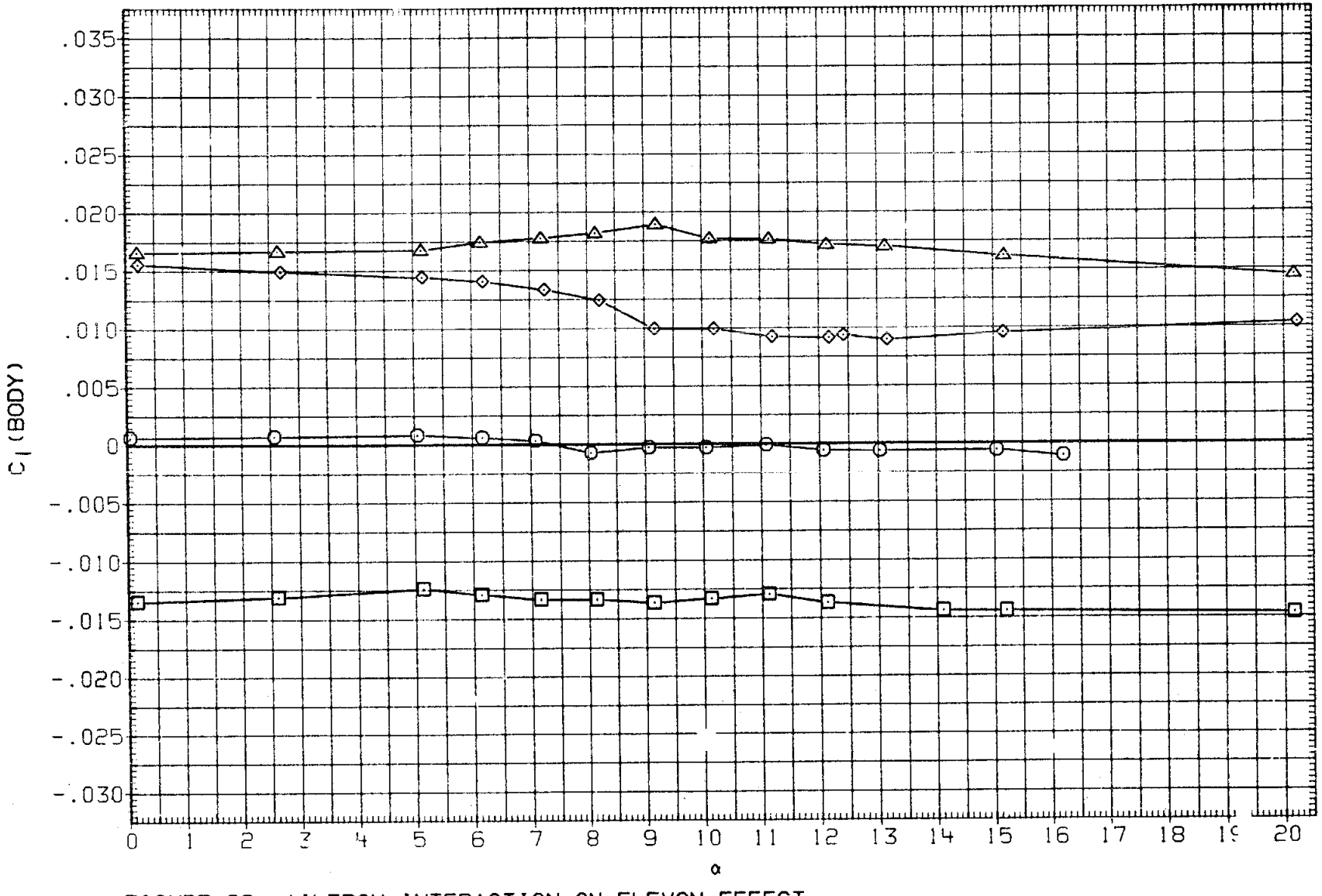

FIGURE 29. AILERON INTERACTION ON ELEVON EFFECT

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0007	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RK0010	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.690	4.690	.000	25.500	-.030	.000
RK0011	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	5.060	5.060	.000	25.500	-.030	.000

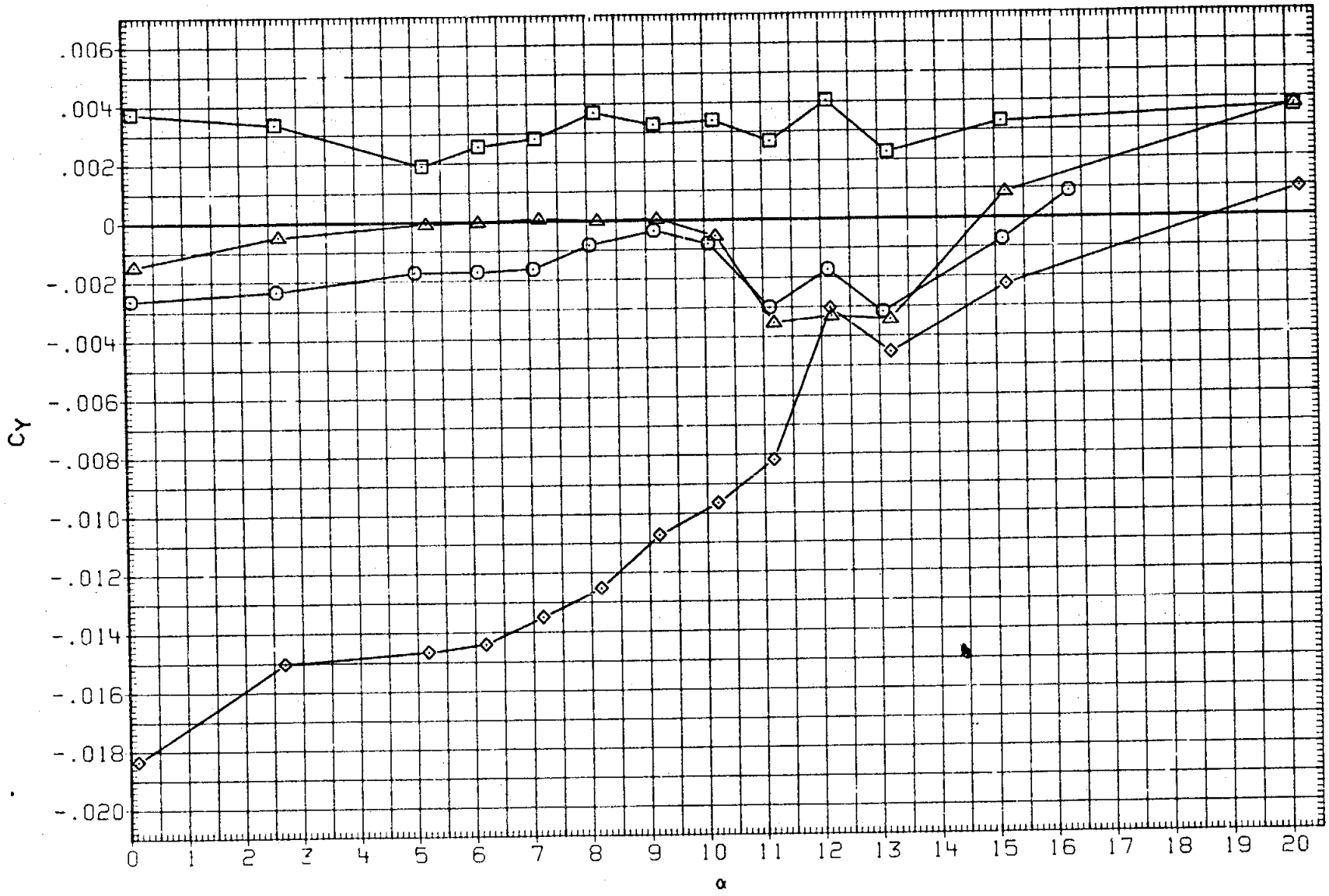

FIGURE 29. AILERON INTERACTION ON ELEVON EFFECT

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0007	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RK0010	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.690	4.690	.000	25.500	-.030	.000
RK0011	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	5.060	5.060	.000	25.500	-.030	.000

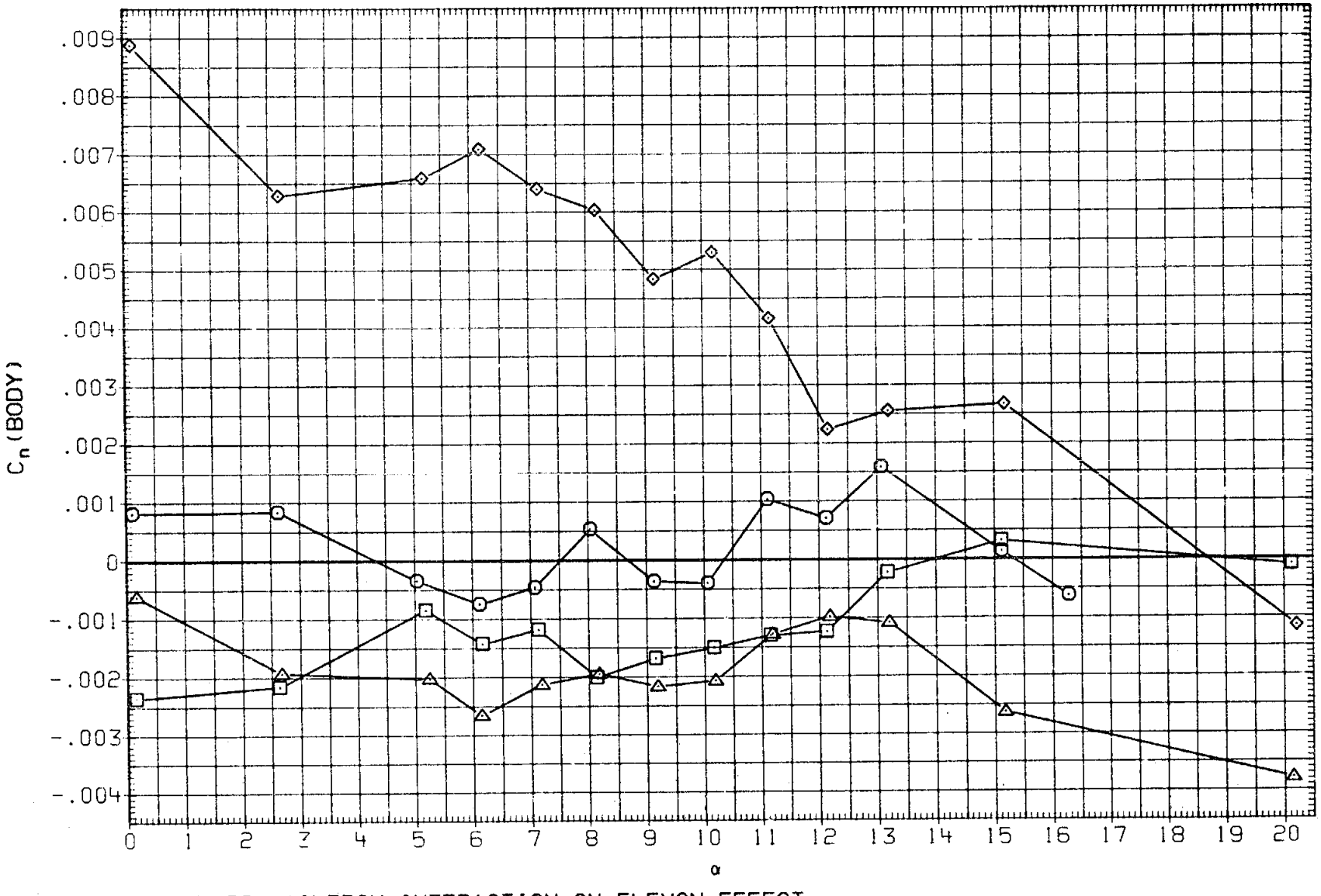

FIGURE 29. AILERON INTERACTION ON ELEVON EFFECT

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0007	□	LARC 16FT TWT 325(OA270B) 105-0 ORR.	.000	.070	-4.860	.000	25.500	-.030	.000
RK0010	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.690	4.690	.000	25.500	-.030	.000
RK0011	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	5.060	5.060	.000	25.500	-.030	.000

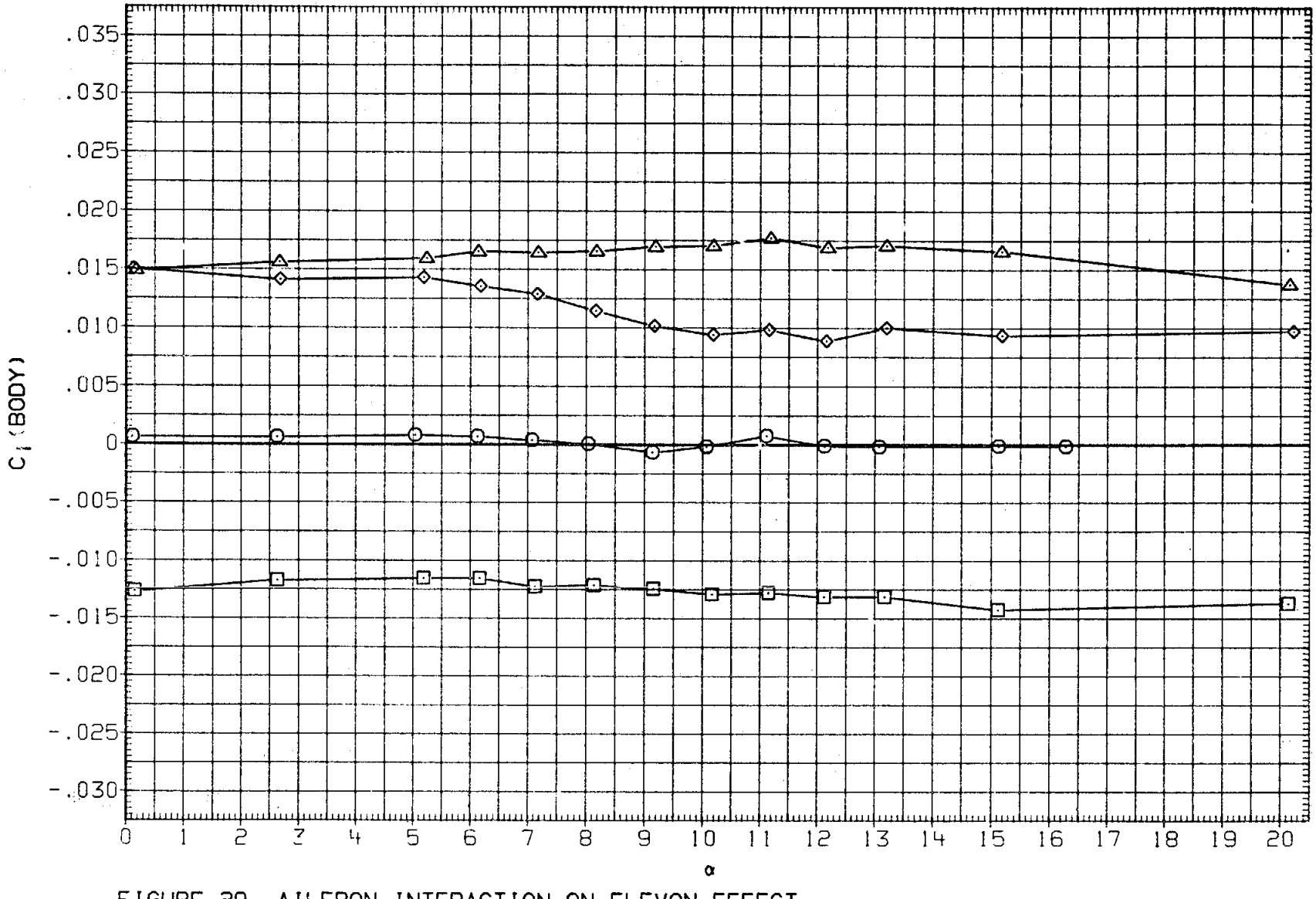

FIGURE 29. AILERON INTERACTION ON ELEVON EFFECT

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0007	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RK0010	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.690	4.690	.000	25.500	-.030	.000
RK0011	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	5.060	5.060	.000	25.500	-.030	.000

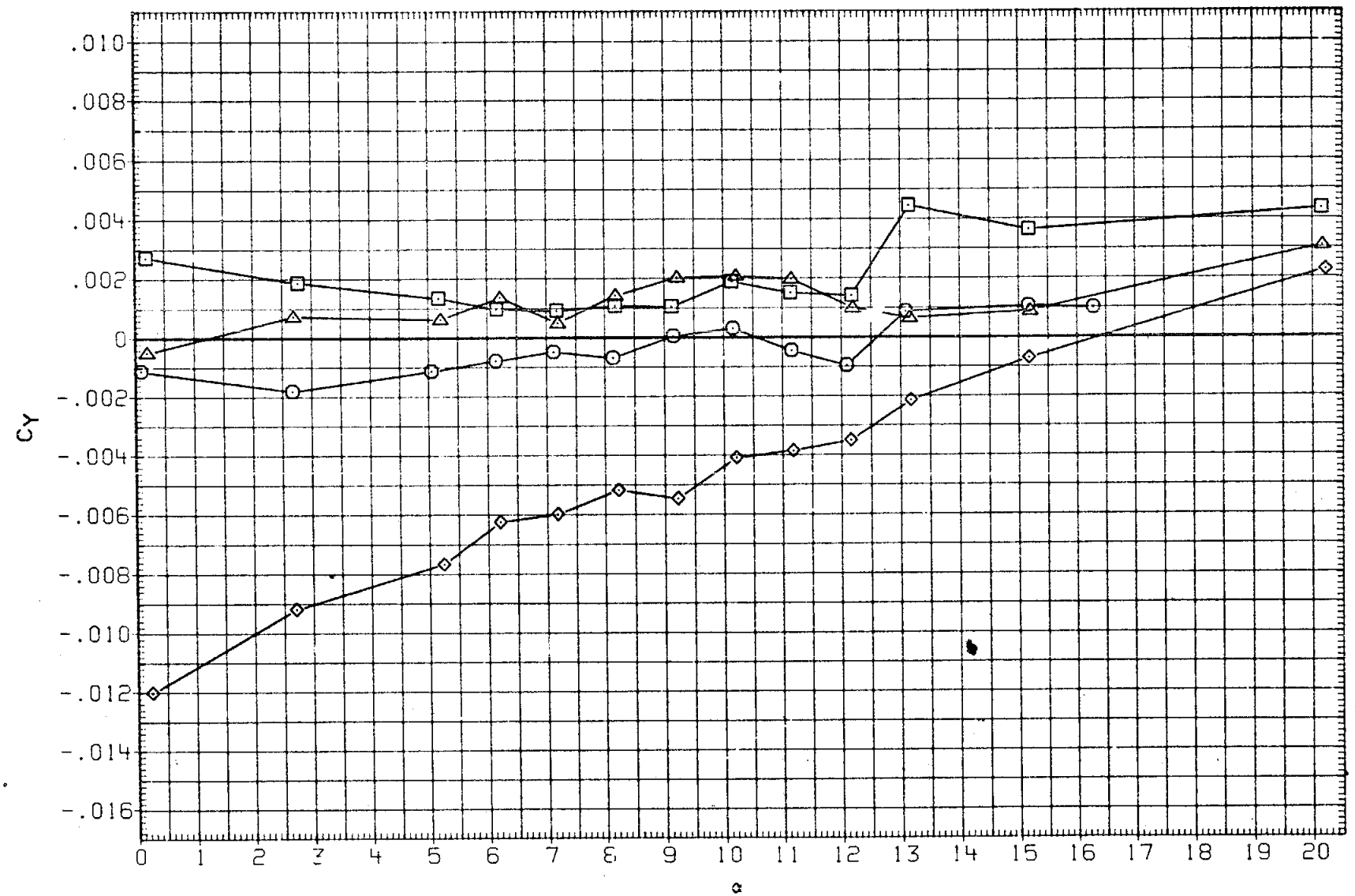

FIGURE 29. AILERON INTERACTION ON ELEVON EFFECT

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0007	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RK0010	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.690	4.690	.000	25.500	-.030	.000
RK0011	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	5.060	5.060	.000	25.500	-.030	.000

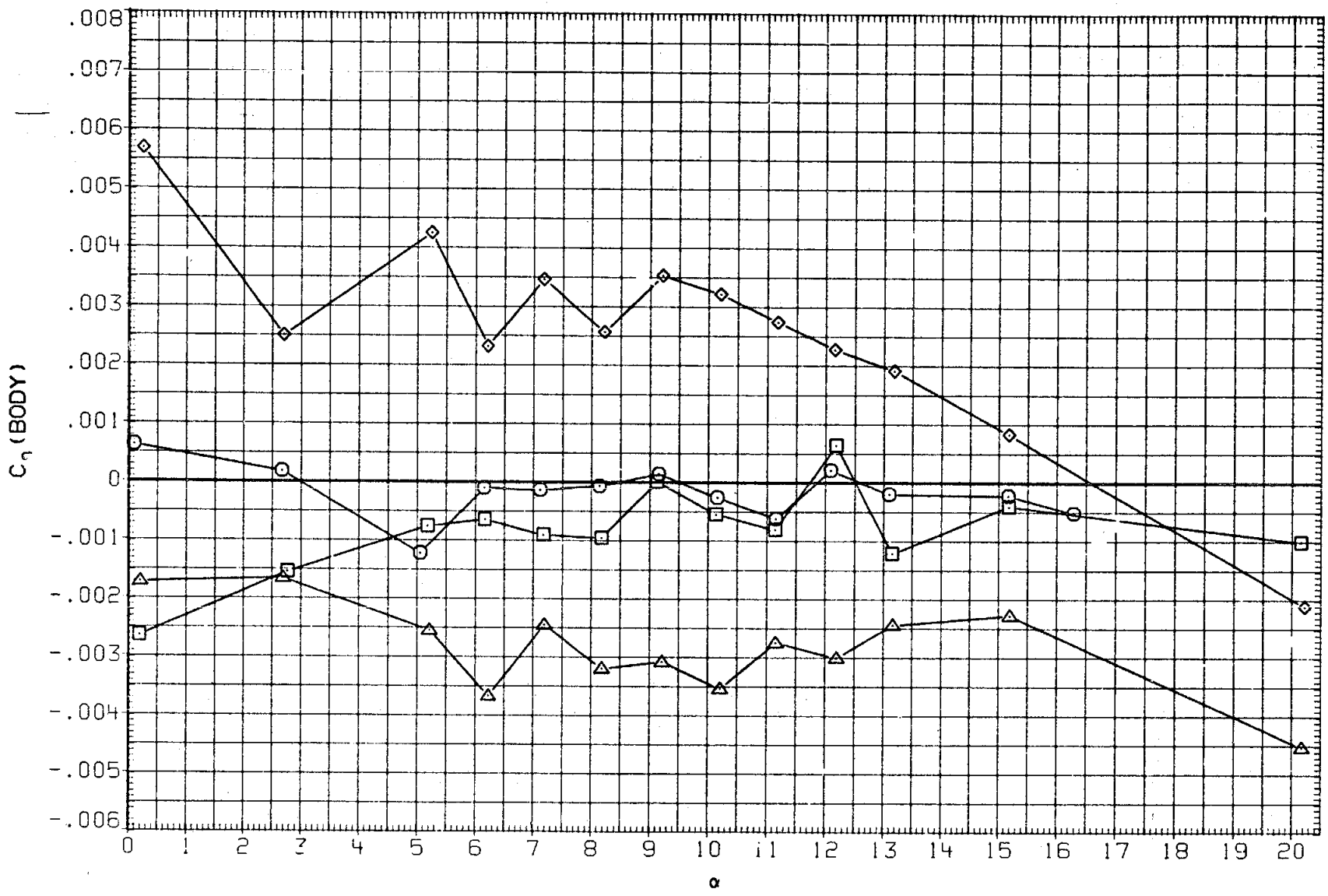

FIGURE 29. AILERON INTERACTION ON ELEVON EFFECT

(H) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0007	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RK0010	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.690	4.690	.000	25.500	-.030	.000
RK0011	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	5.060	5.060	.000	25.500	-.030	.000

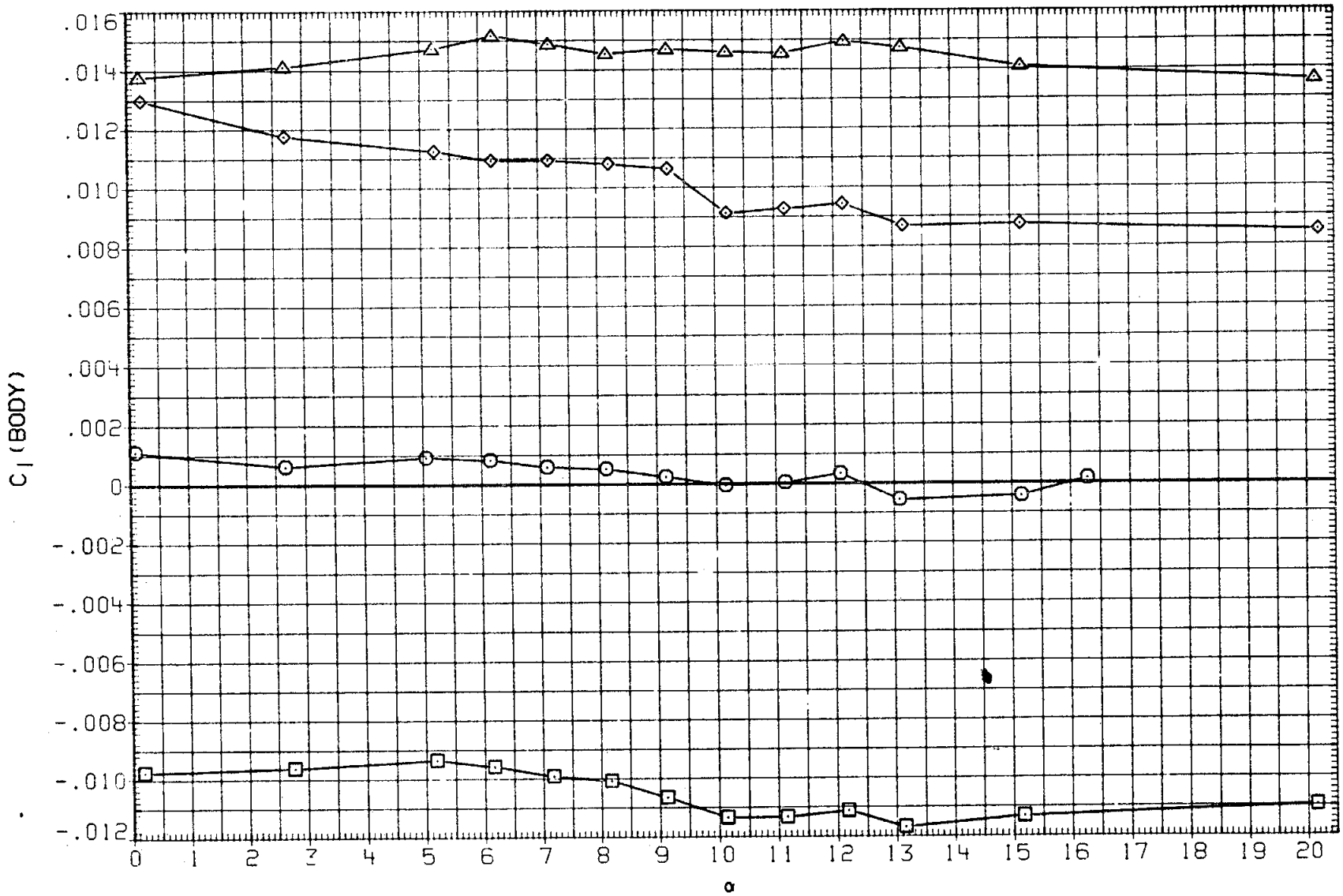

FIGURE 29. AILERON INTERACTION ON ELEVON EFFECT

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0007	□	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RK0010	◇	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	-4.690	4.690	.000	25.500	-.030	.000
RK0011	△	LARC 16FT TWT 325(0A270B) 105-0 ORB.	.000	5.060	5.060	.000	25.500	-.030	.000

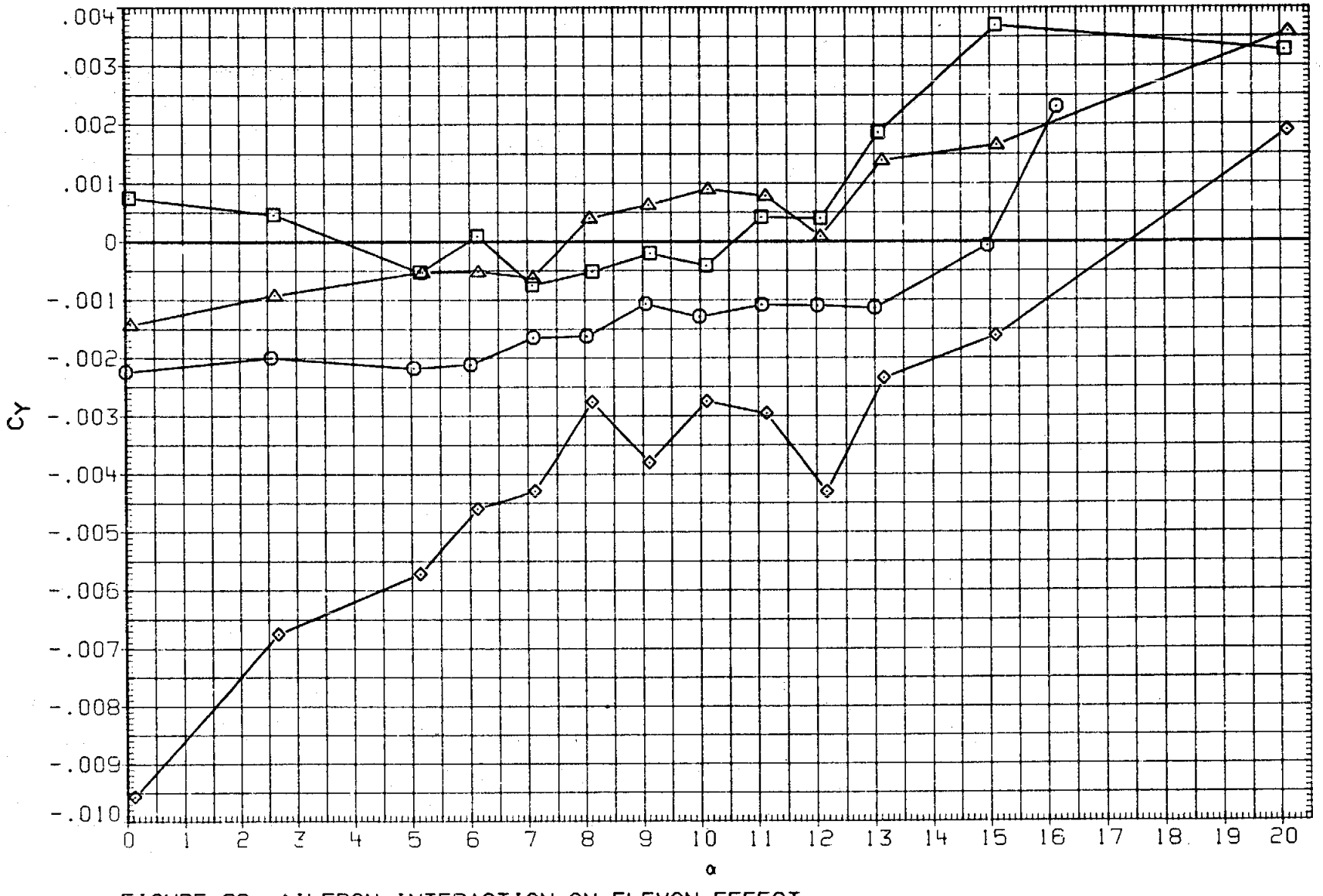

FIGURE 29. AILERON INTERACTION ON ELEVON EFFECT

(I)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0007	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RK0010	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.690	4.690	.000	25.500	-.030	.000
RK0011	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	5.060	5.060	.000	25.500	-.030	.000

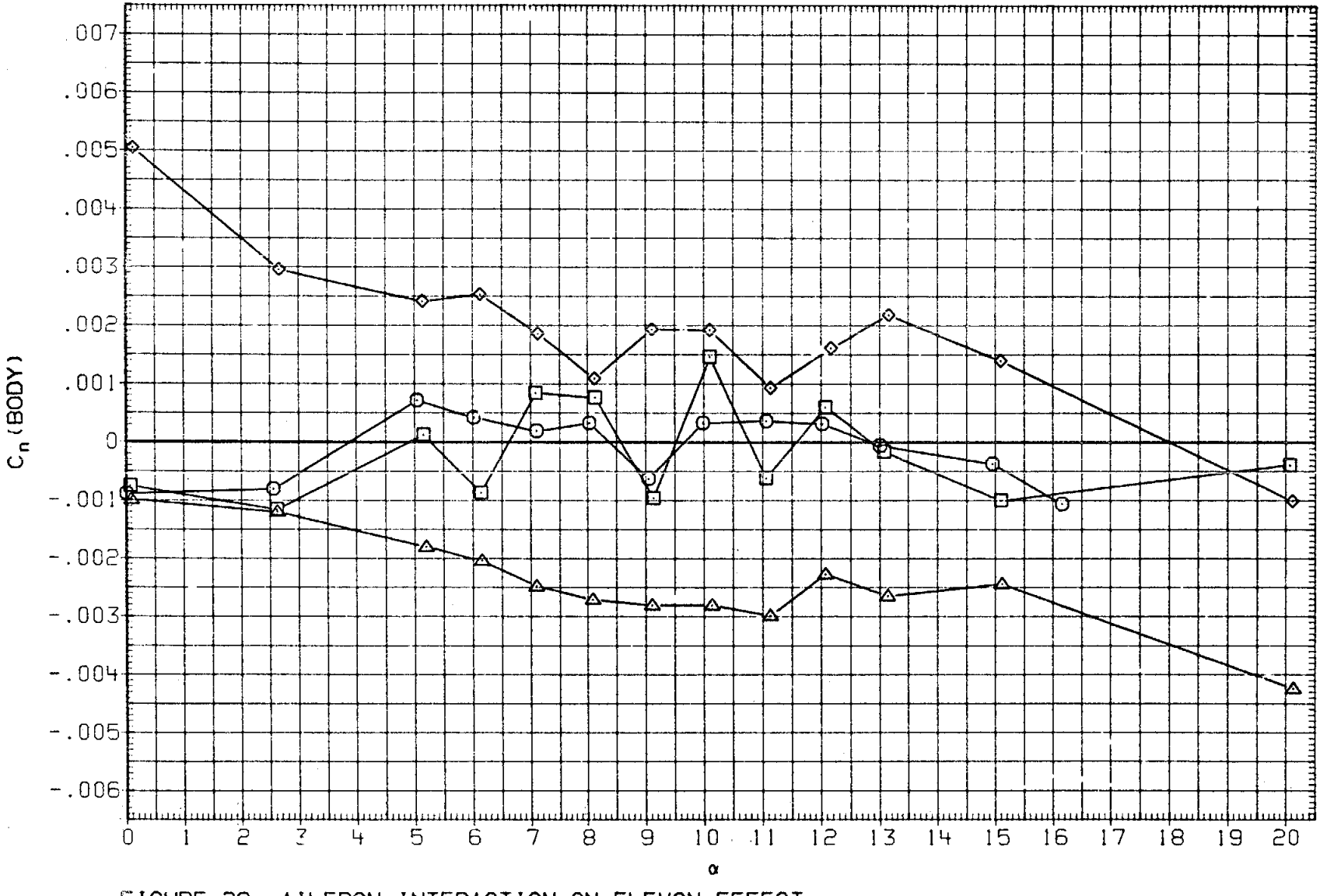

FIGURE 29. AILERON INTERACTION ON ELEVON EFFECT

(I)MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	BETA	ELEVON	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RK0003	○	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.000	.000	.000	25.500	-.030	.000
RK0007	□	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	.070	-4.860	.000	25.500	-.030	.000
RK0010	◇	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	-4.690	4.690	.000	25.500	-.030	.000
RK0011	△	LARC 16FT TWT 325(OA270B) 105-0 ORB.	.000	5.060	5.060	.000	25.500	-.030	.000

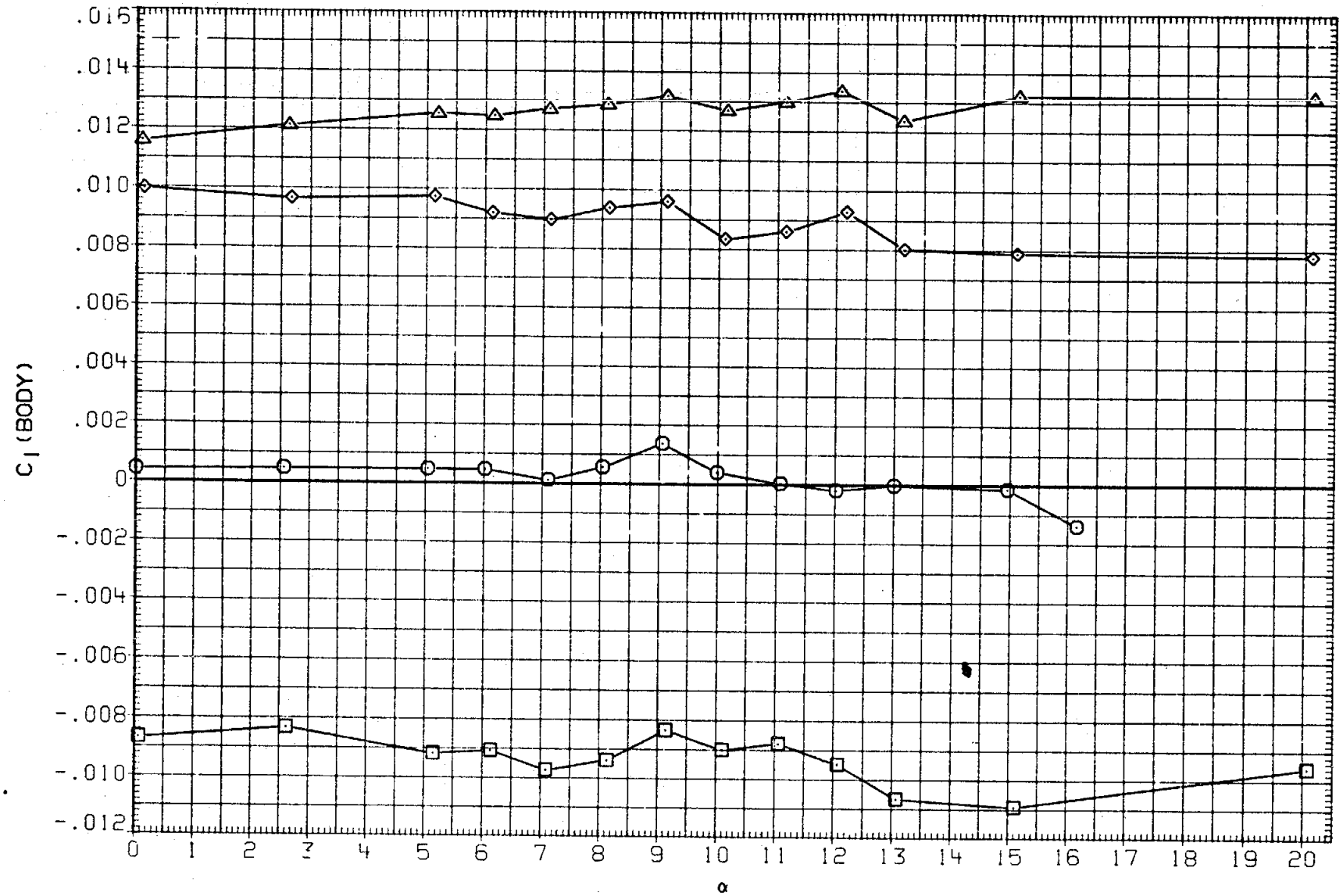

FIGURE 29. AILERON INTERACTION ON ELEVON EFFECT

(I) MACH = 1.30

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN033	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000
RKN037	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	3.000	.000	25.000	.000	.000

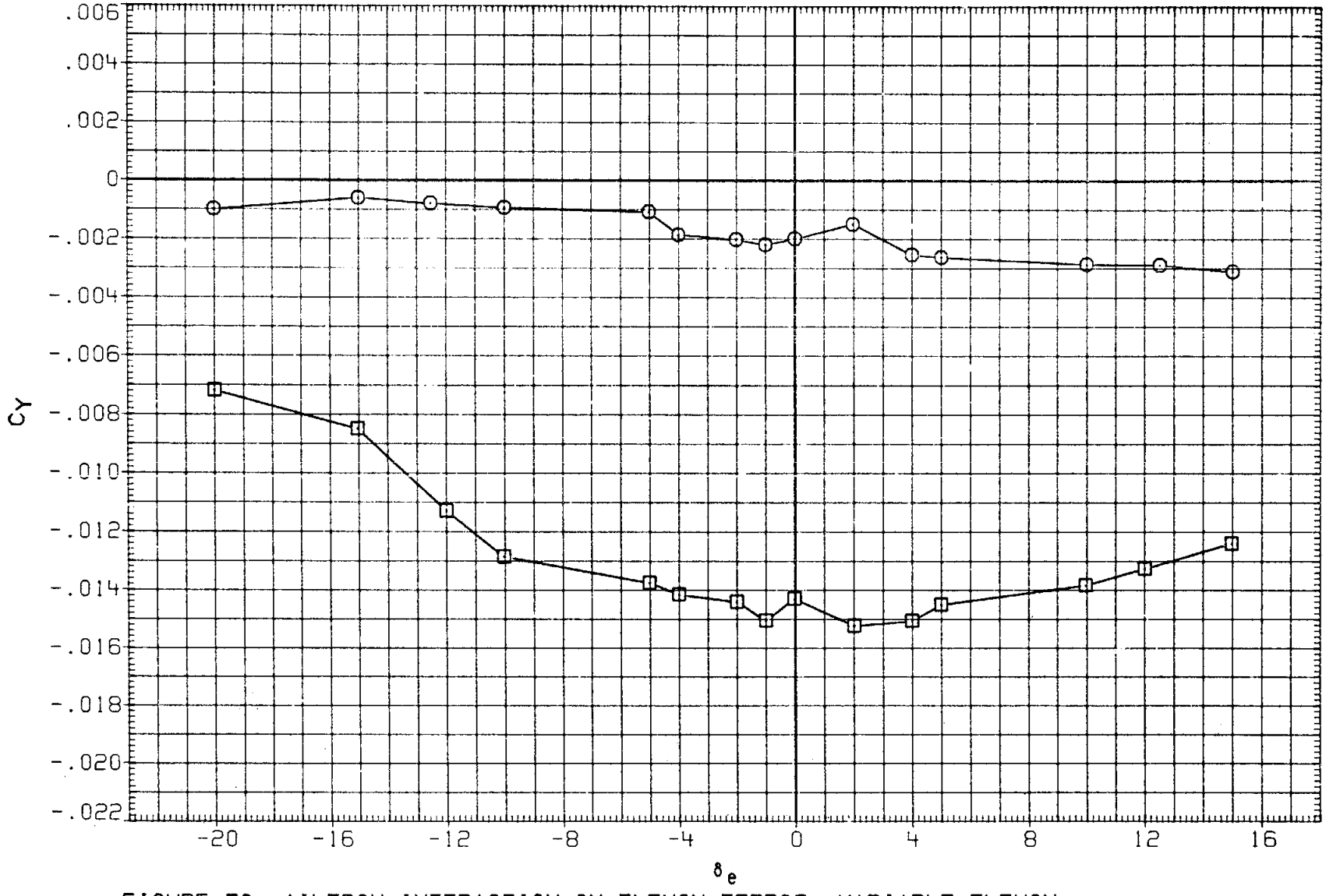

FIGURE 30. AILERON INTERACTION ON ELEVON EFFECT, VARIABLE ELEVON

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN033	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000
RKN037	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	3.000	.000	25.000	.000	.000

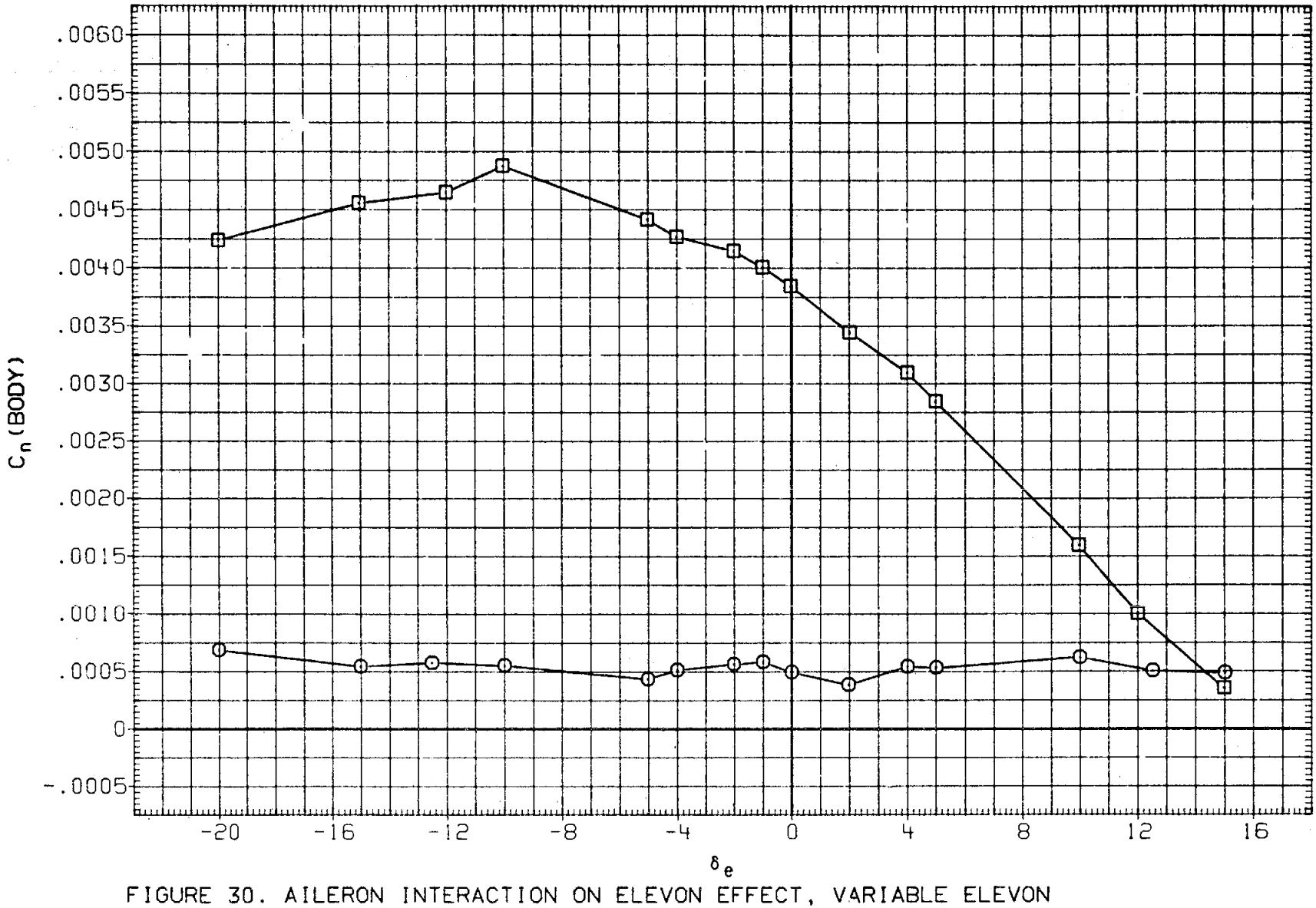

FIGURE 30. AILERON INTERACTION ON ELEVON EFFECT, VARIABLE ELEVON

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN033	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000
RKN037	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	3.000	.000	25.000	.000	.000

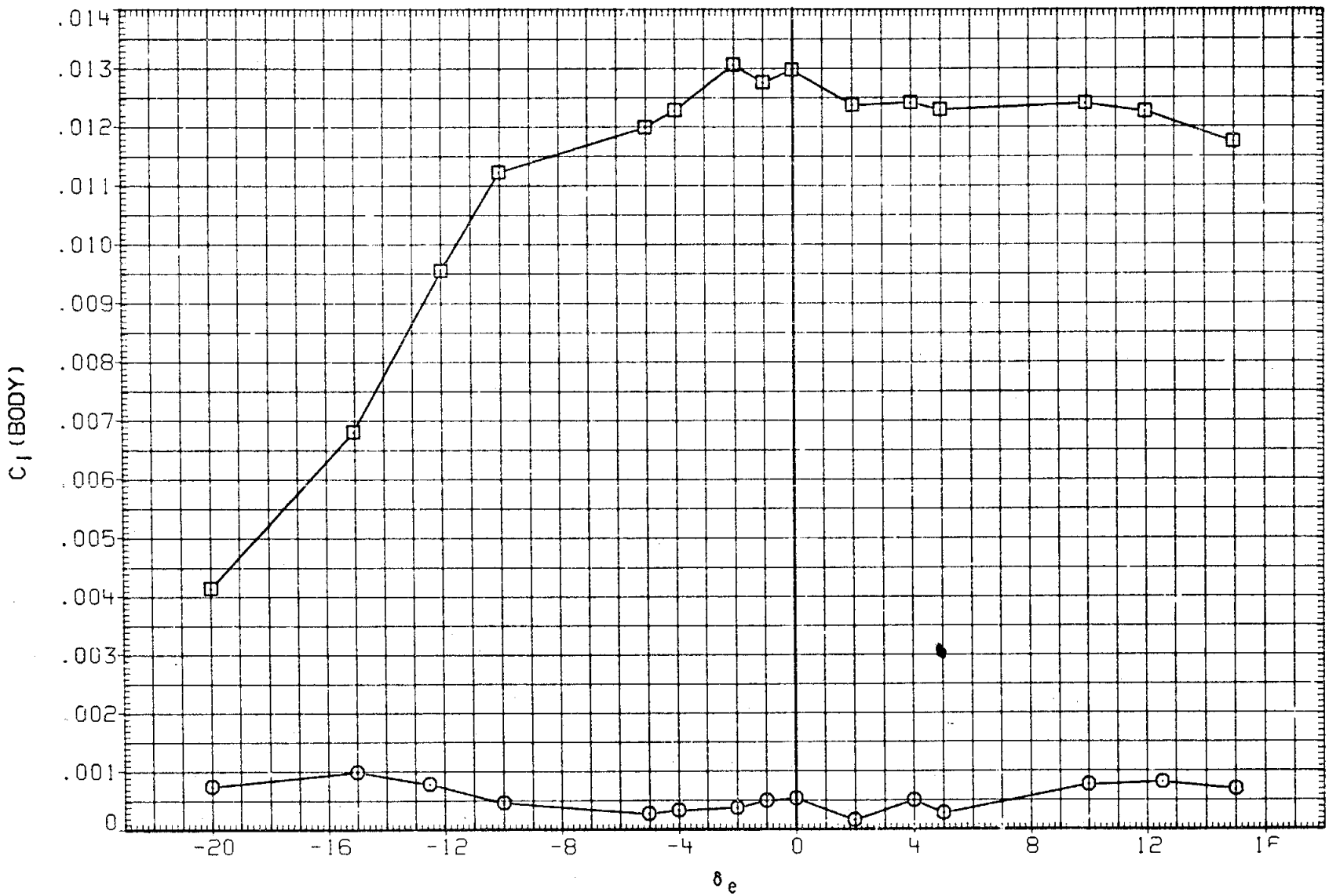

FIGURE 30. AILERON INTERACTION ON ELEVON EFFECT, VARIABLE ELEVON

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN033	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000
RKN037	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	3.000	.000	25.000	.000	.000

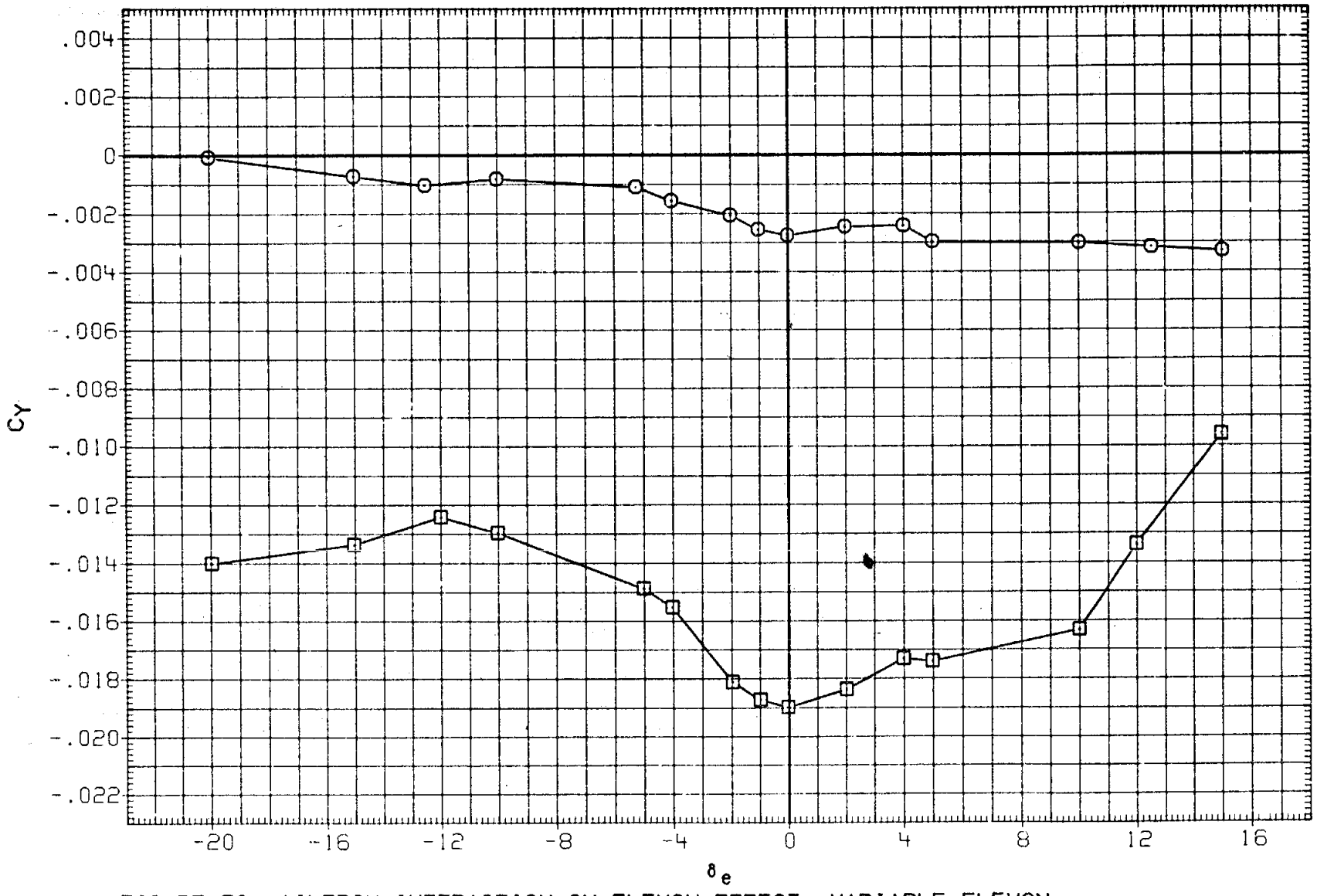

FIGURE 30. AILERON INTERACTION ON ELEVON EFFECT, VARIABLE ELEVON

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN033	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000
RKN037	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	3.000	.000	25.000	.000	.000

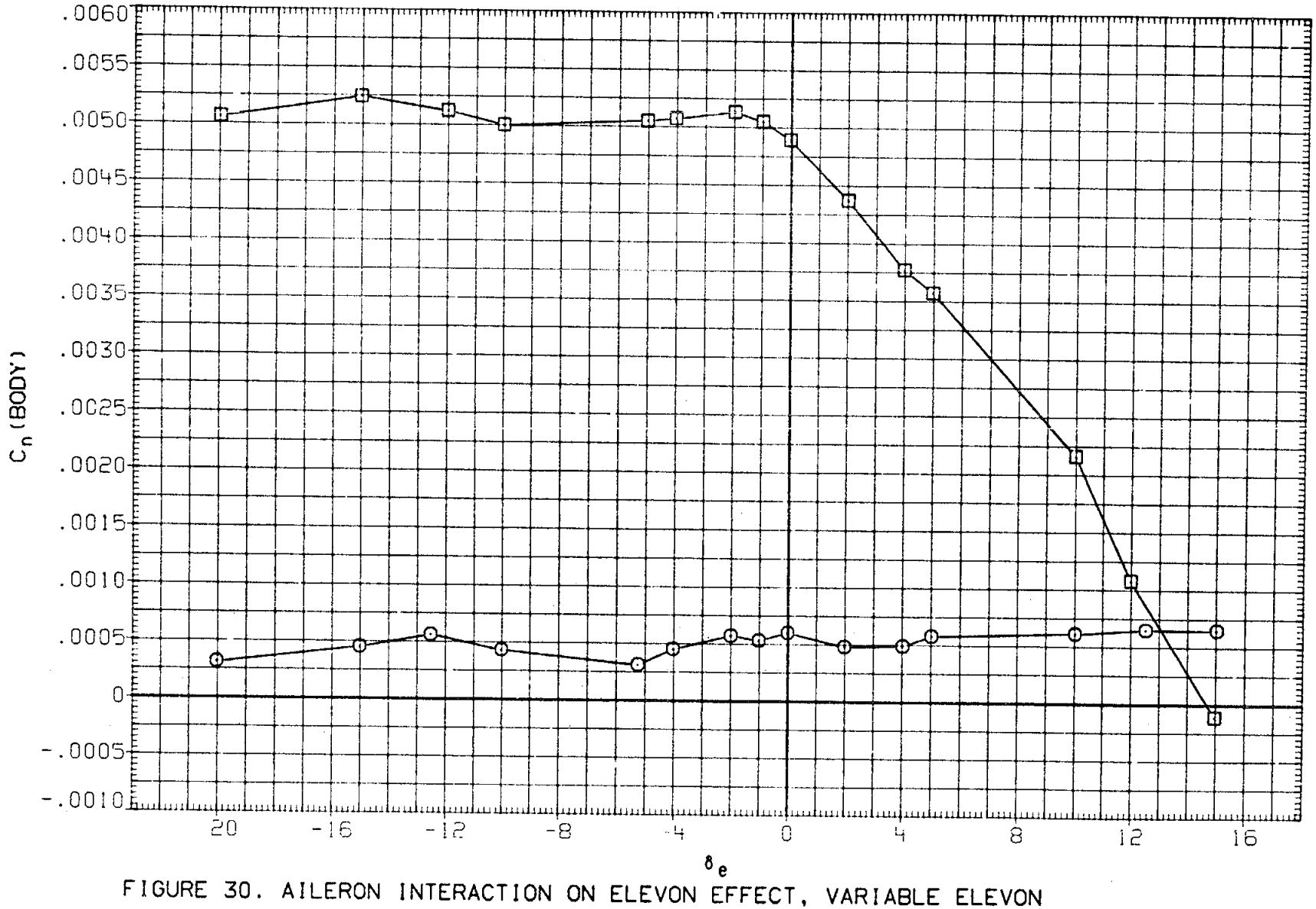

FIGURE 30. AILERON INTERACTION ON ELEVON EFFECT, VARIABLE ELEVON

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN033	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000
RKN037	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	3.000	.000	25.000	.000	.000

FIGURE 30. AILERON INTERACTION ON ELEVON EFFECT, VARIABLE ELEVON

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN033	○	DATA NOT AVAILABLE	.000	.000	.000	.000	25.000	.000	.000
RKN037	□	LARC 16FT TWT 326(0A270A) 39-0 ORB	5.000	.000	3.000	.000	25.000	.000	.000

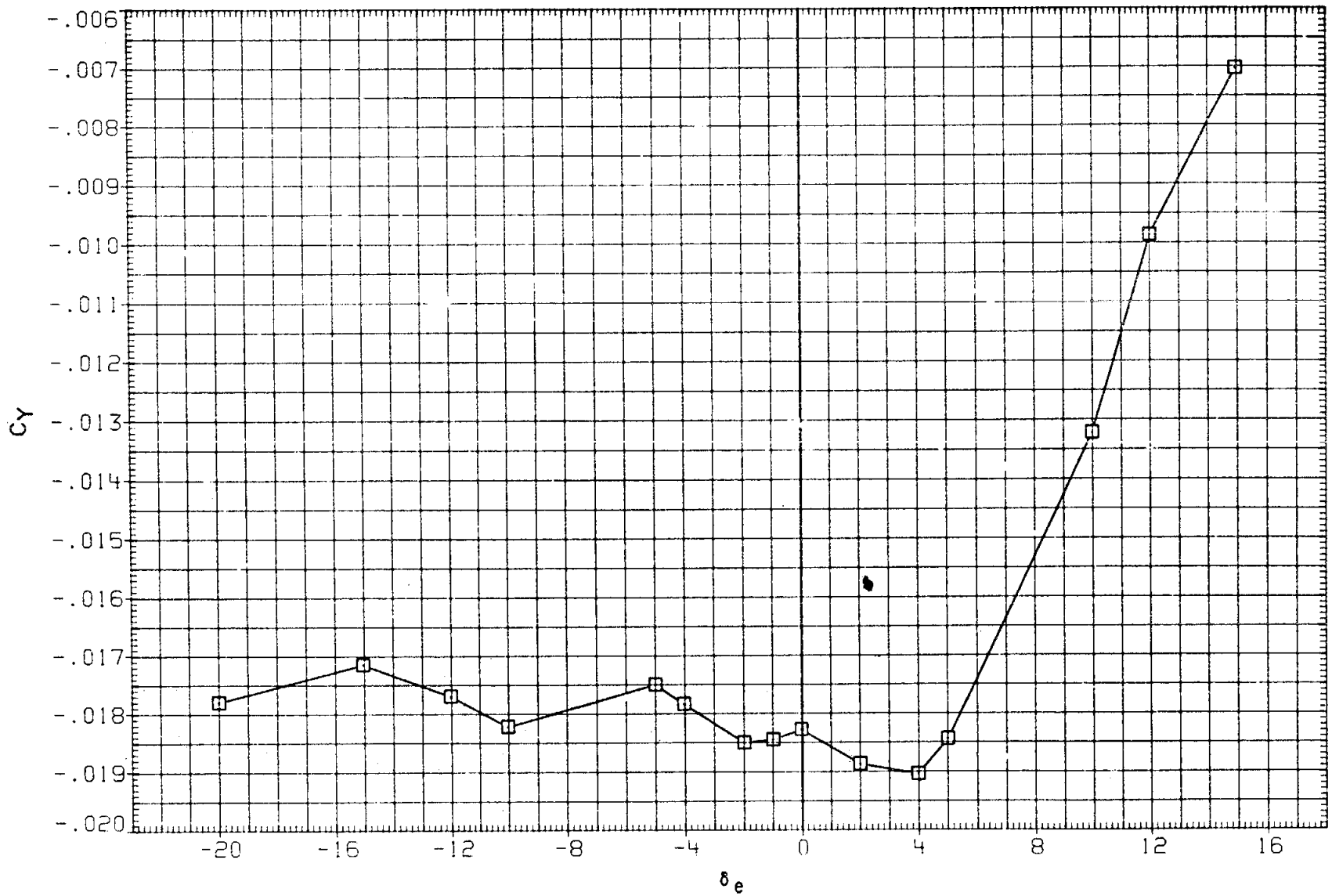

FIGURE 30. AILERON INTERACTION ON ELEVON EFFECT, VARIABLE ELEVON

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN033	○	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	.000
RKN037	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	3.000	.000	25.000	.000	.000

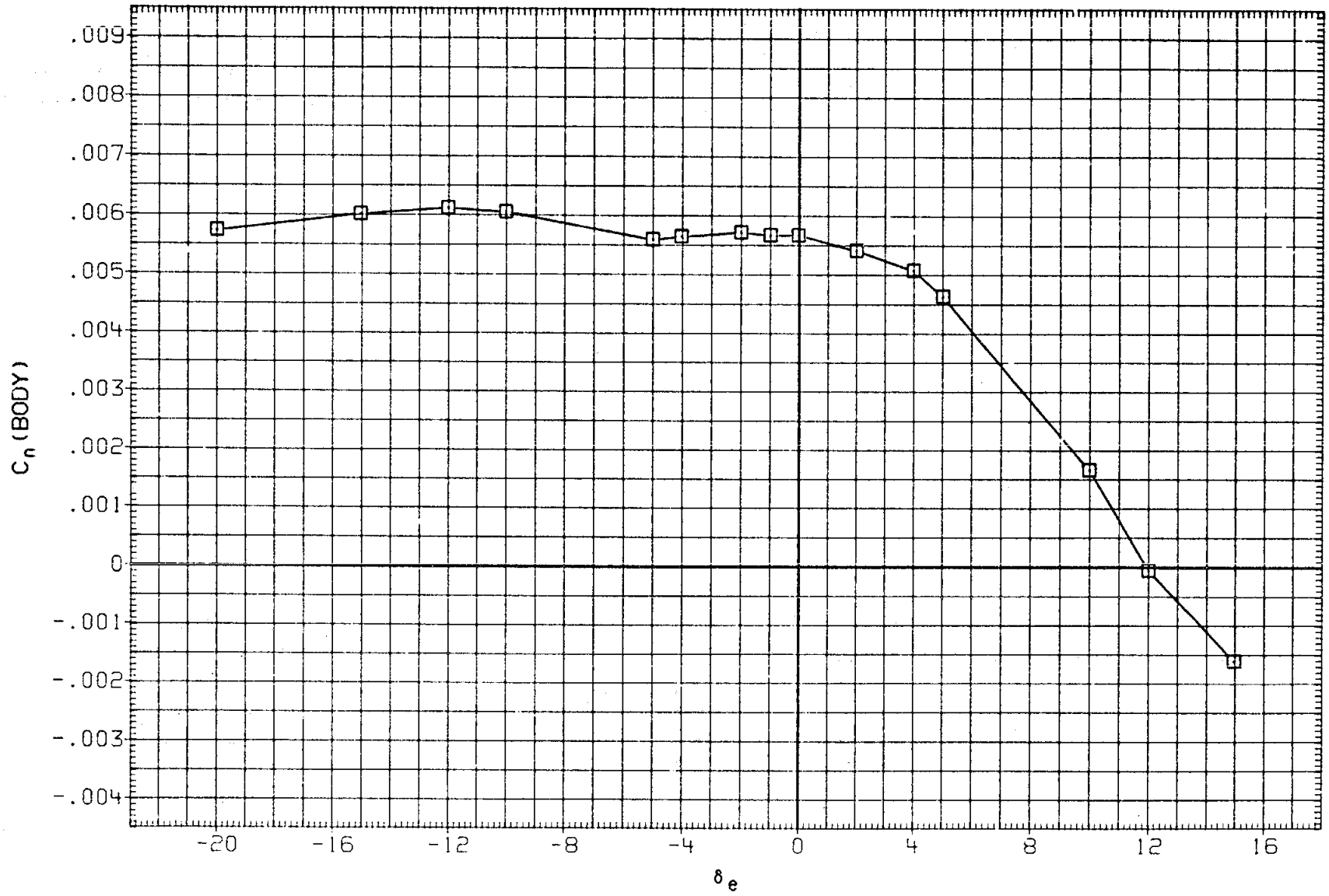

FIGURE 30. AILERON INTERACTION ON ELEVON EFFECT, VARIABLE ELEVON

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN033	○	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	.000
RKN037	□	LARC 16F TWT 326(OA270A) 39-0 CRB.	5.000	.000	3.000	.000	25.000	.000	.000

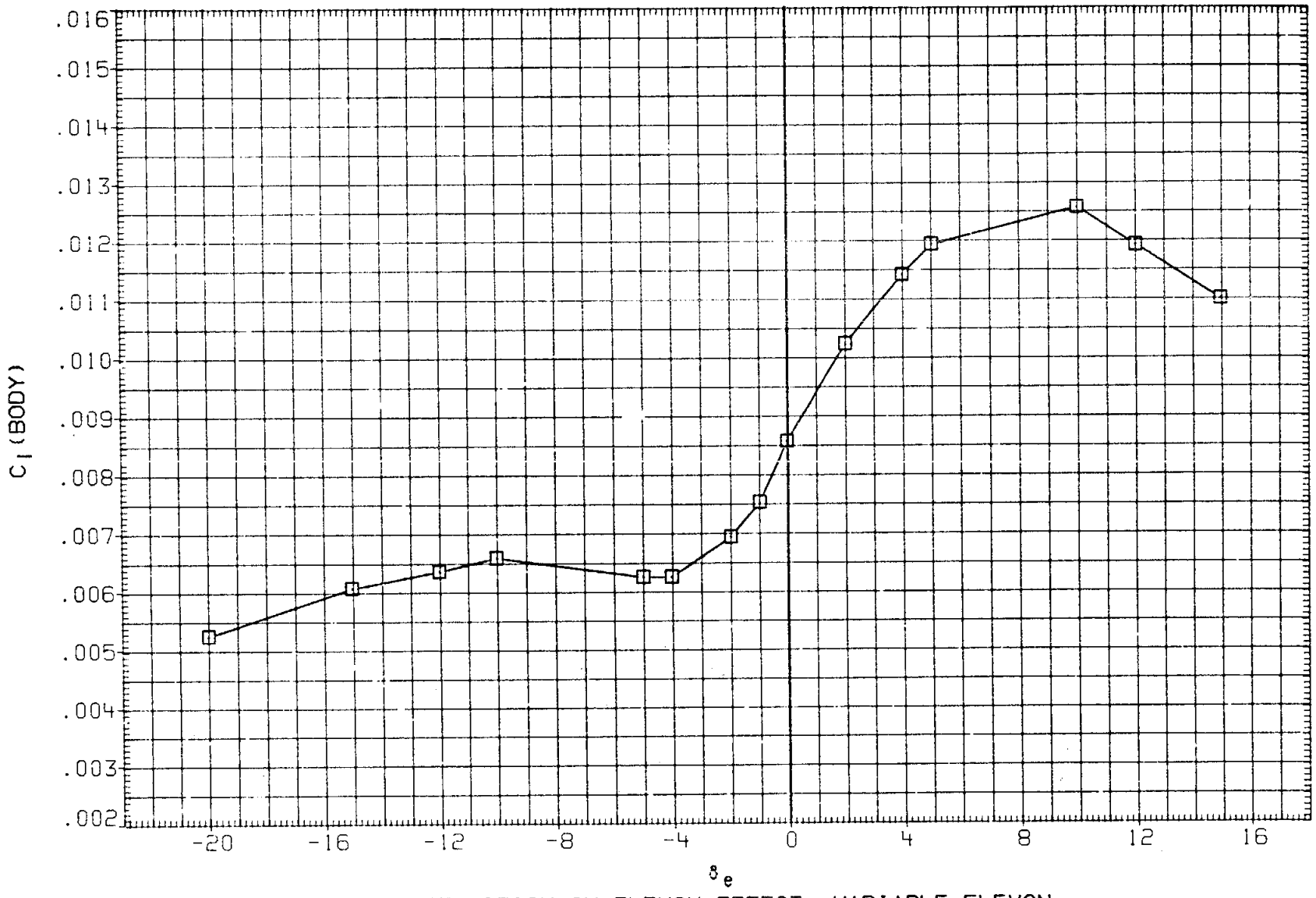

FIGURE 30. AILERON INTERACTION ON ELEVON EFFECT, VARIABLE ELEVON

(C)MACH = .90

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN033	○	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	.000
RKN037	□	LARC 16FT TWT 326(0A270A) 39-0 ORB.	5.000	.000	3.000	.000	25.000	.000	.000

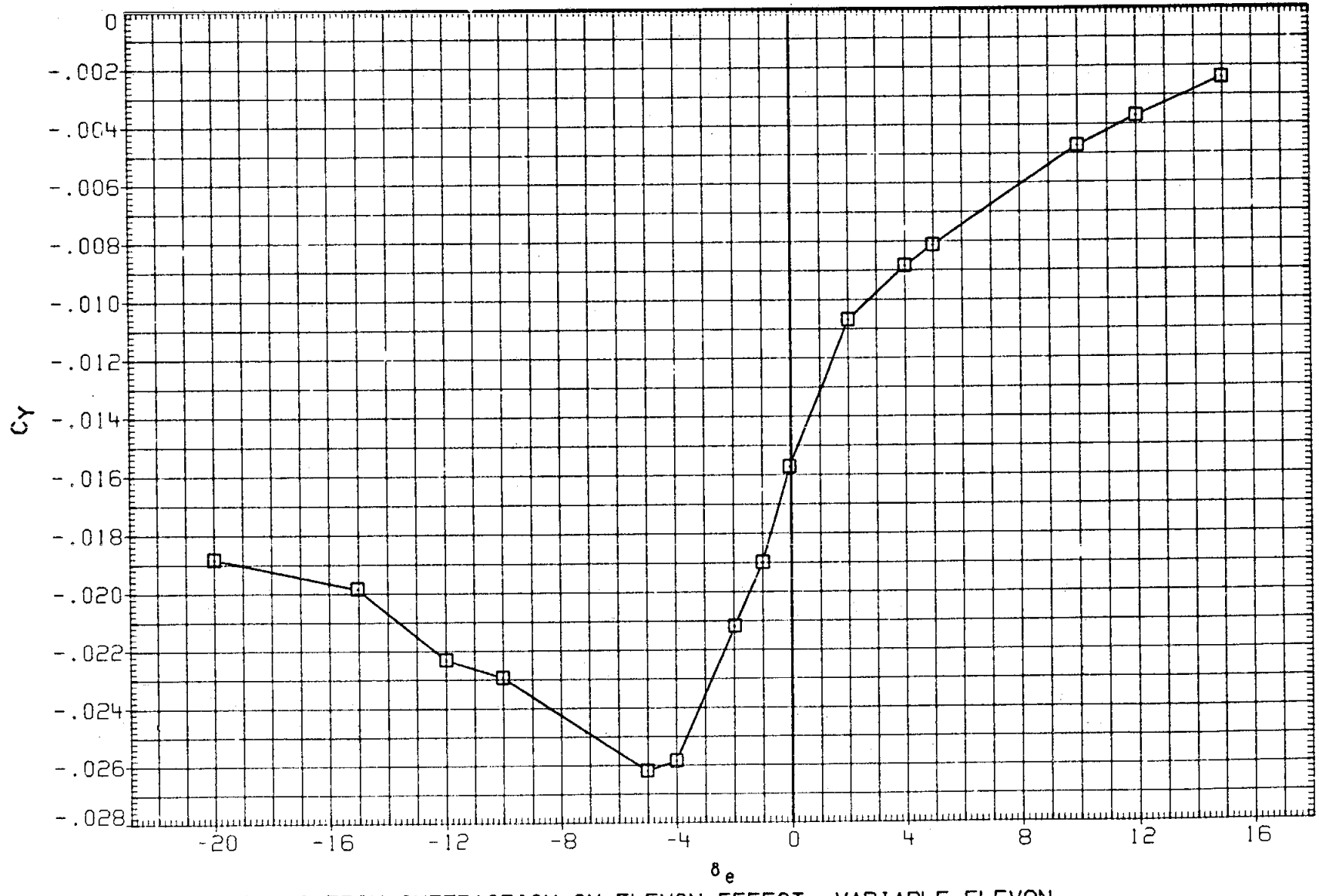

FIGURE 30. AILERON INTERACTION ON ELEVON EFFECT, VARIABLE ELEVON

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN033	○	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	.000
RKN037	□	LARC 16FT TWT 326(OA270A) 39-O ORB.	5.000	.000	3.000	.000	25.000	.000	.000

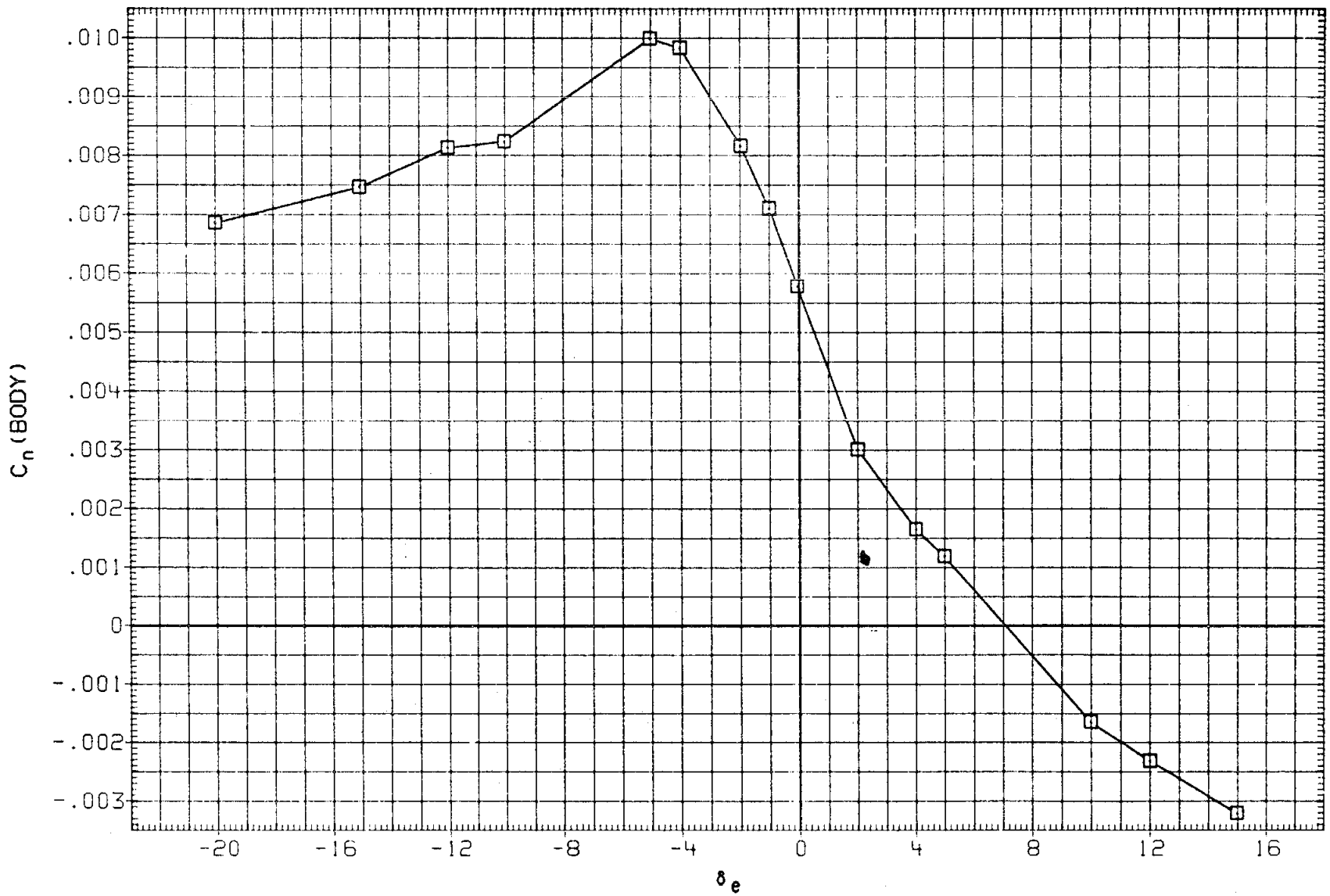

FIGURE 30. AILERON INTERACTION ON ELEVON EFFECT, VARIABLE ELEVON

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN033	○	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	.000
RKN037	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	3.000	.000	25.000	.000	.000

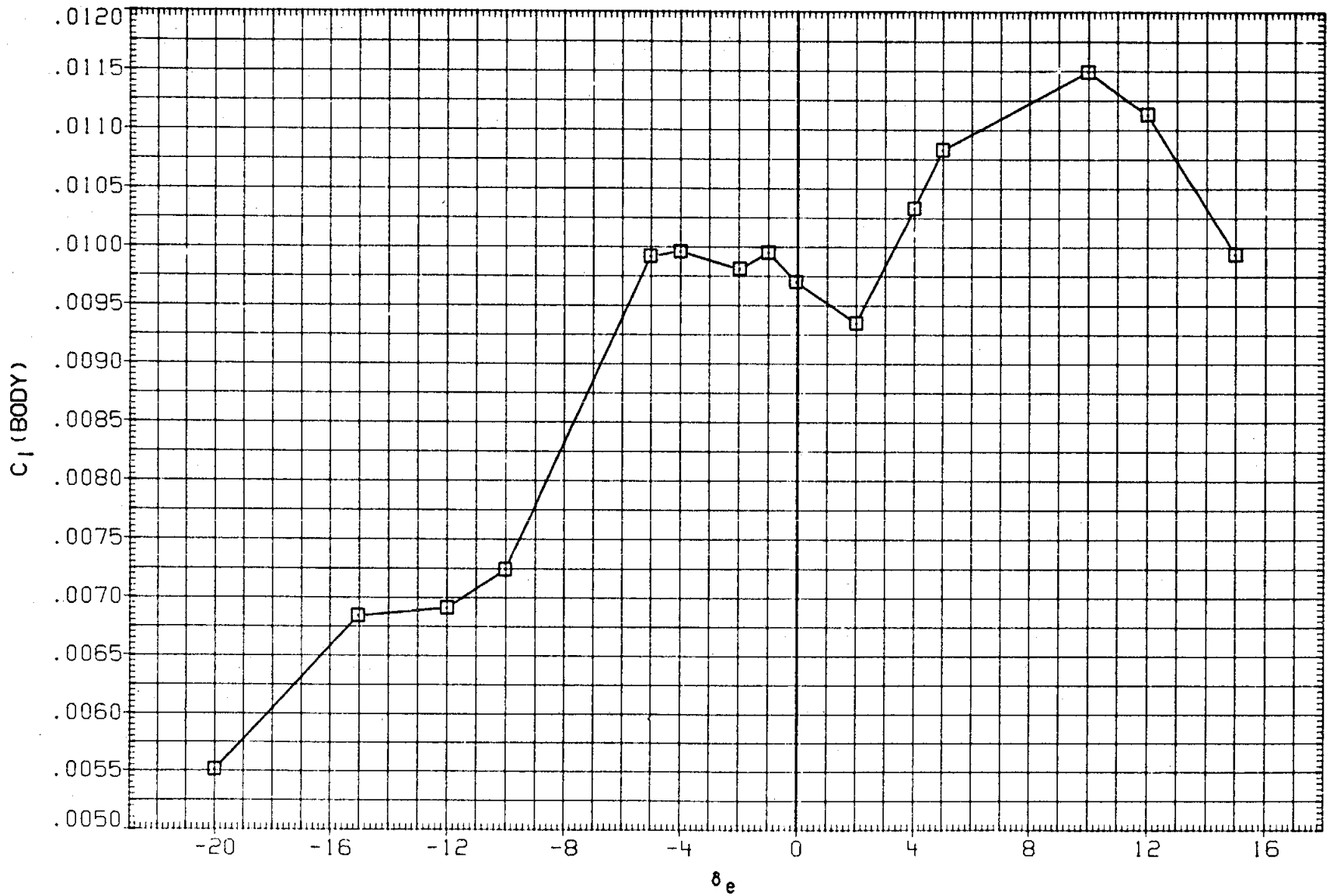

FIGURE 30. AILERON INTERACTION ON ELEVON EFFECT, VARIABLE ELEVON

(D)MACH = .95

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN033	○	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	.000
RKN037	□	LARC 16FT TWT 326(0A27UA) 39-0 ORB.	5.000	.000	3.000	.000	25.000	.000	.000

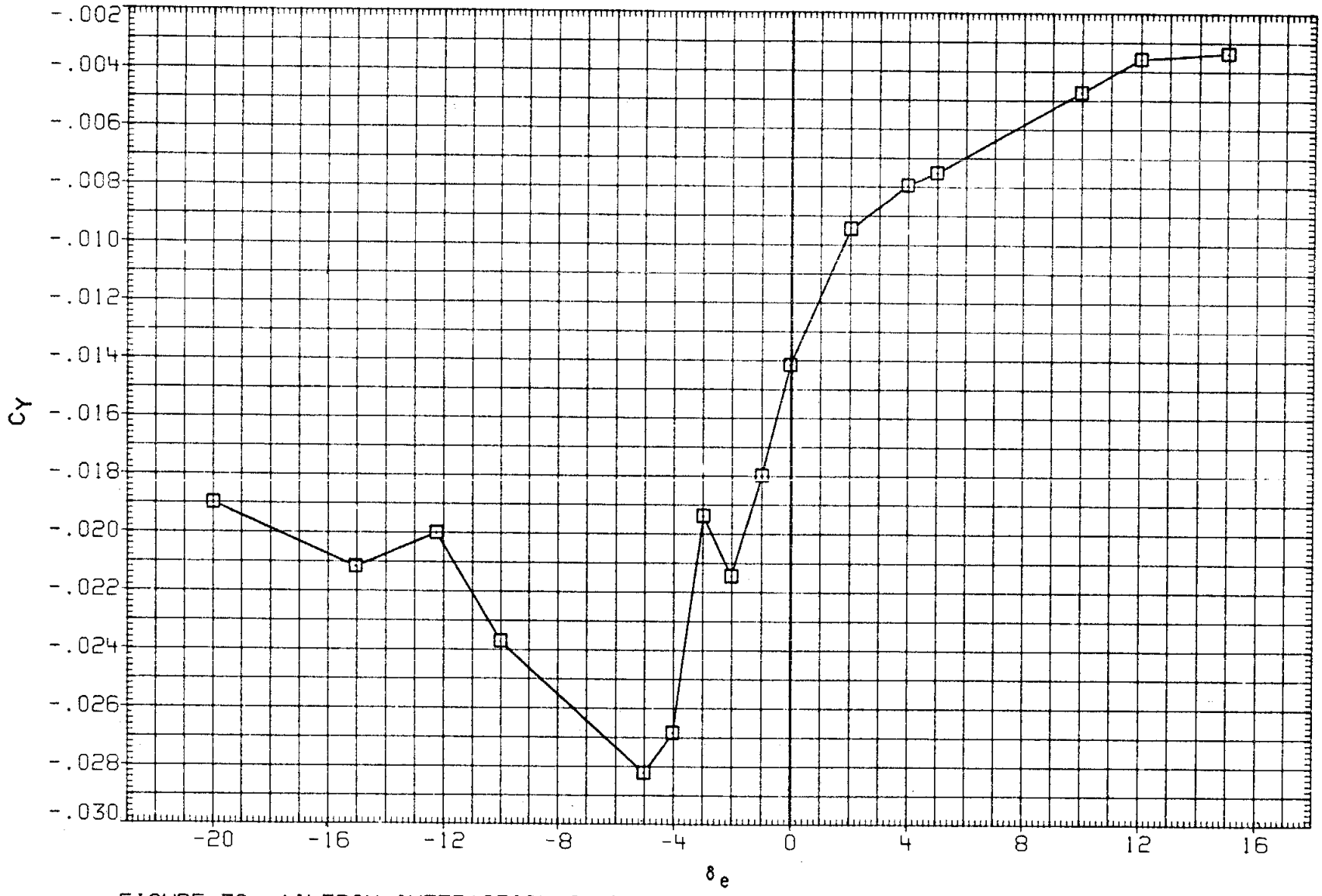

FIGURE 30. AILERON INTERACTION ON ELEVON EFFECT, VARIABLE ELEVON

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN033	○	DATA NOT AVAILABLE	5.000	.000	.000	.000	25.000	.000	.000
RKN037	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	3.000	.000	25.000	.000	.000

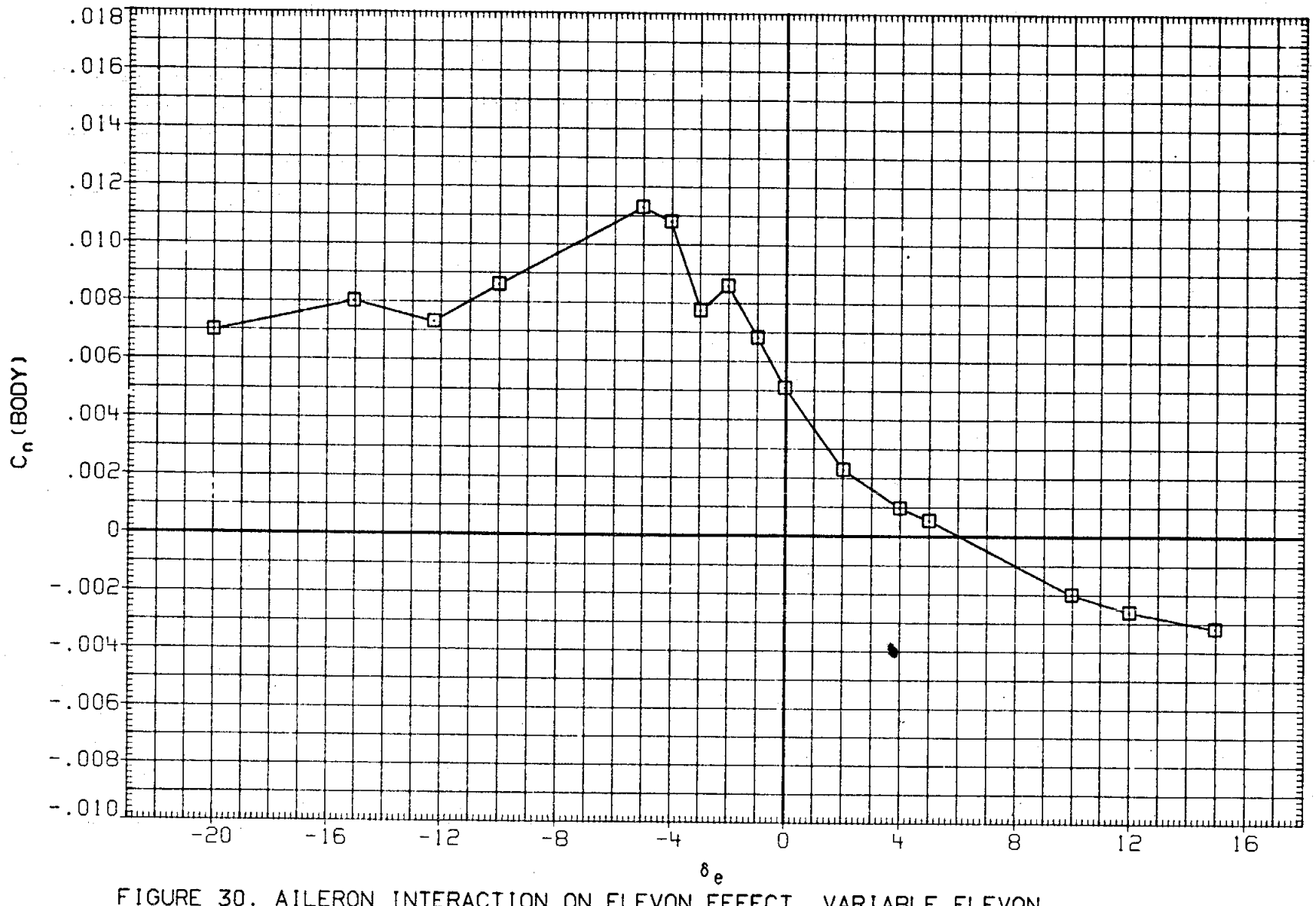

FIGURE 30. AILERON INTERACTION ON ELEVON EFFECT, VARIABLE ELEVON

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION
RKN033	○	DATA NOT AVAILABLE
RKN037	□	LARC 16FT TWT 326(0A270A) 39-0 ORB.

ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
5.000	.000	.000	.000	25.000	.000	.000
5.000	.000	3.000	.000	25.000	.000	.000

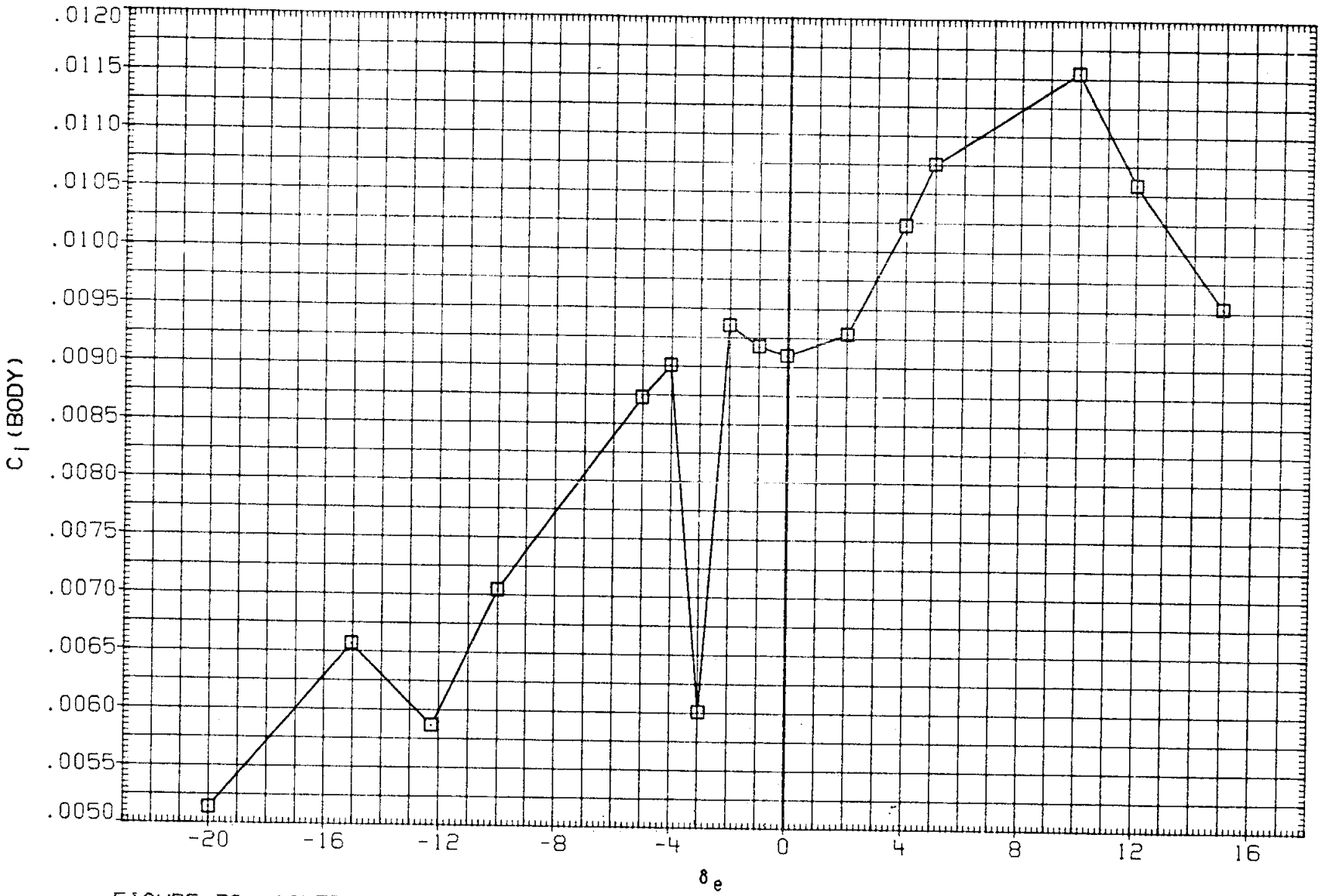

FIGURE 30. AILERON INTERACTION ON ELEVON EFFECT, VARIABLE ELEVON

(E)MACH = .98

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN033	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000
RKN037	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	3.000	.000	25.000	.000	.000

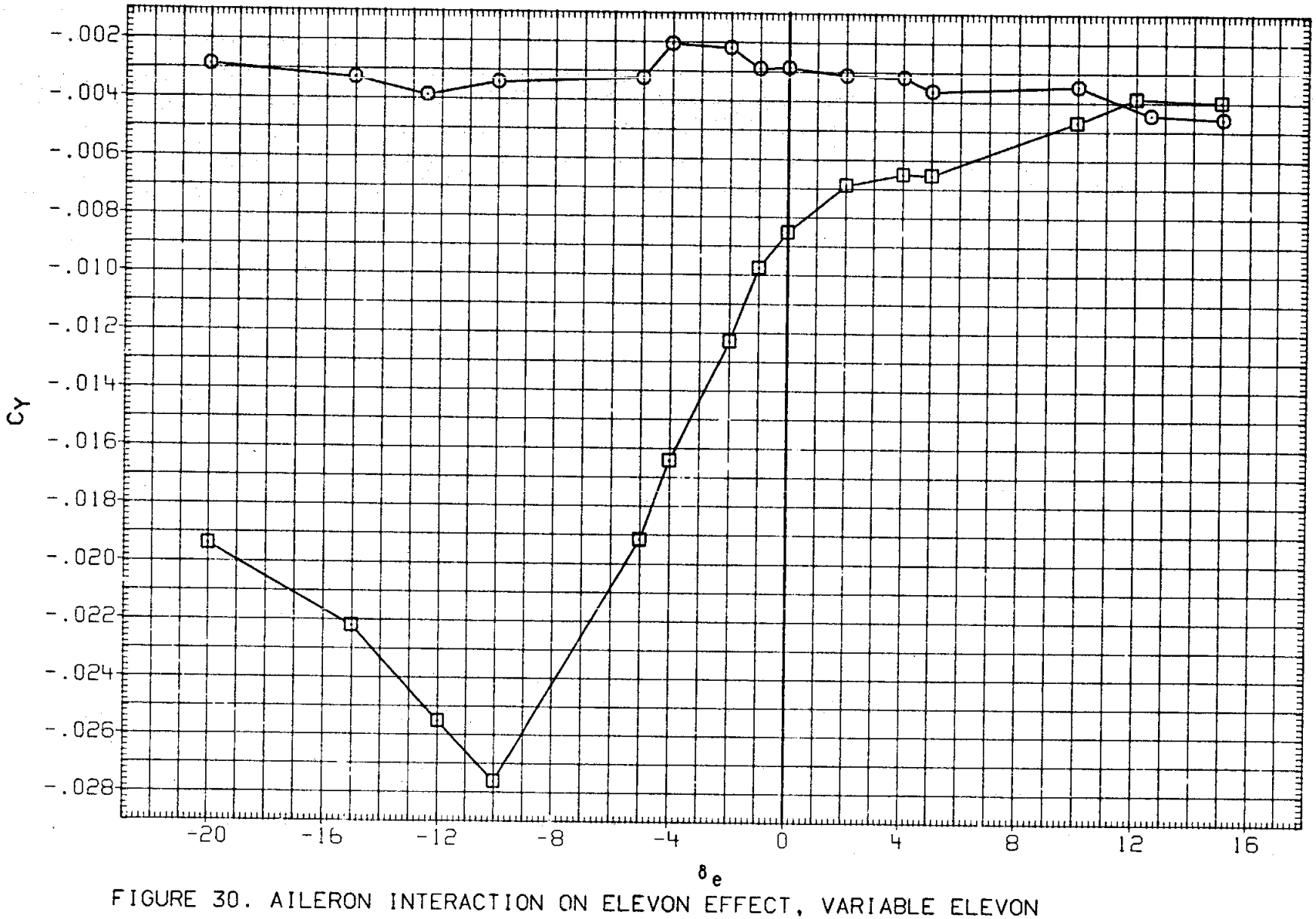

FIGURE 30. AILERON INTERACTION ON ELEVON EFFECT, VARIABLE ELEVON

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN033	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000
RKN037	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	3.000	.000	25.000	.000	.000

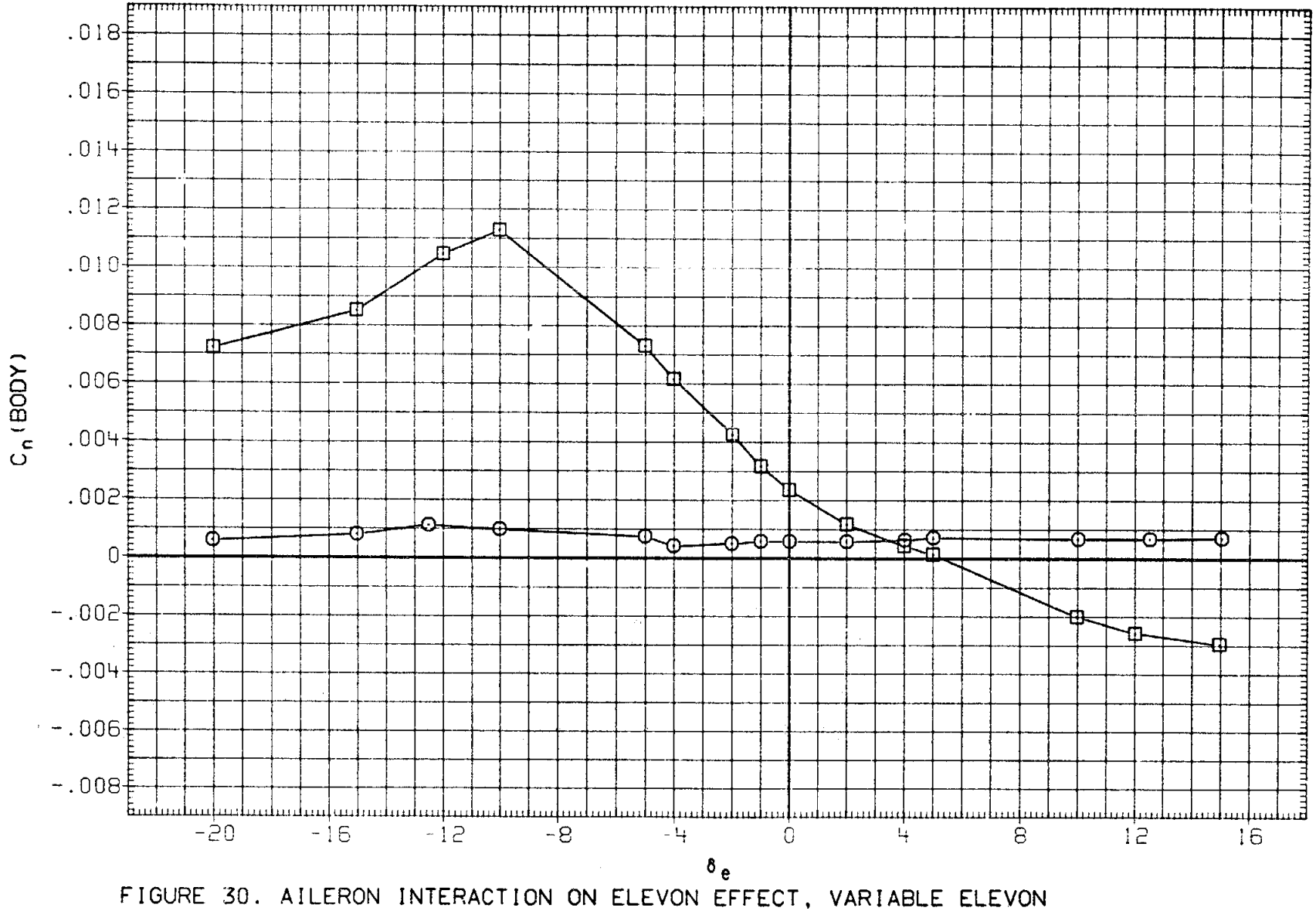

FIGURE 30. AILERON INTERACTION ON ELEVON EFFECT, VARIABLE ELEVON

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN033	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000
RKN037	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	3.000	.000	25.000	.000	.000

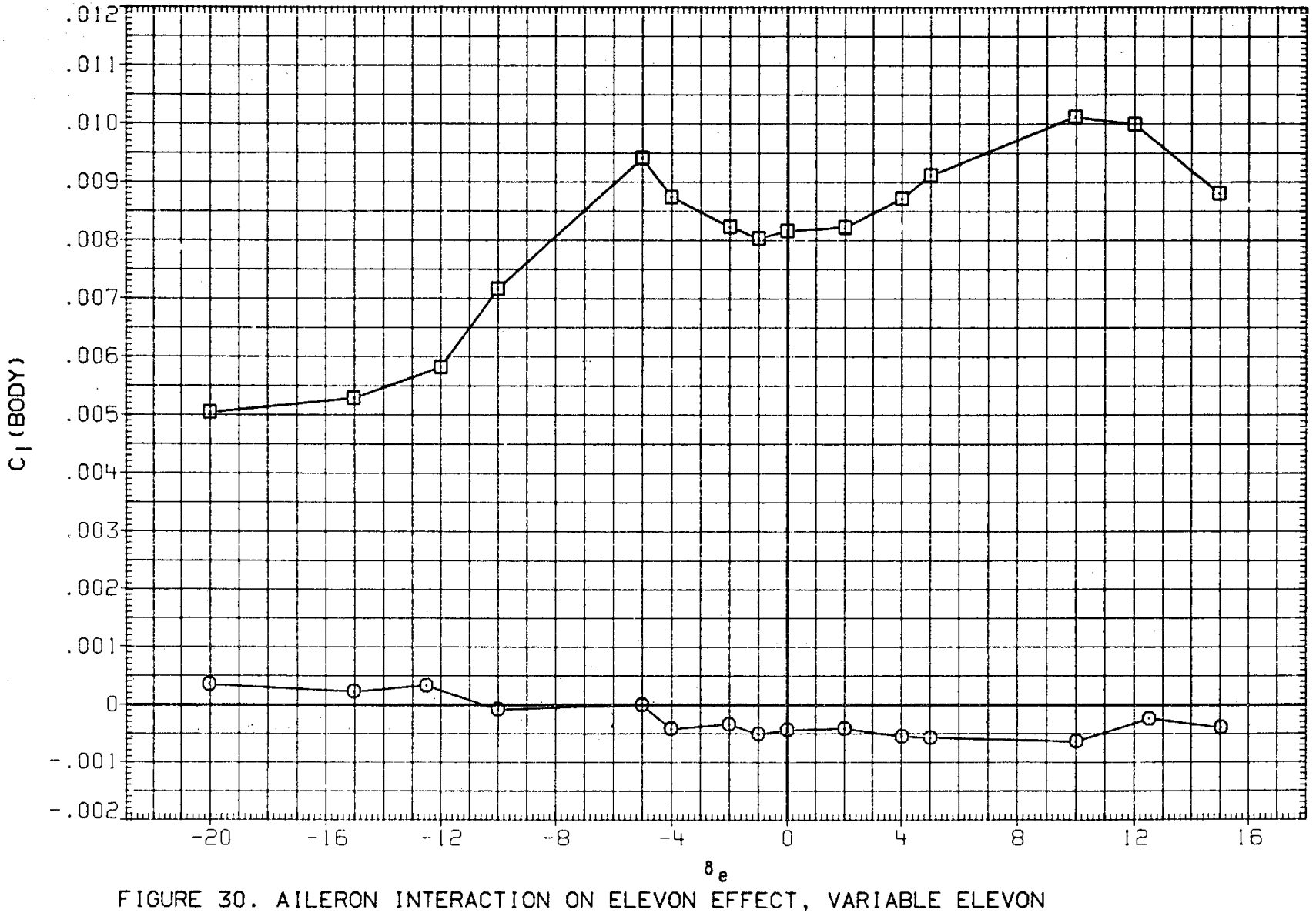

FIGURE 30. AILERON INTERACTION ON ELEVON EFFECT, VARIABLE ELEVON

(F)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN033	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000
RKN037	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	3.000	.000	25.000	.000	.000

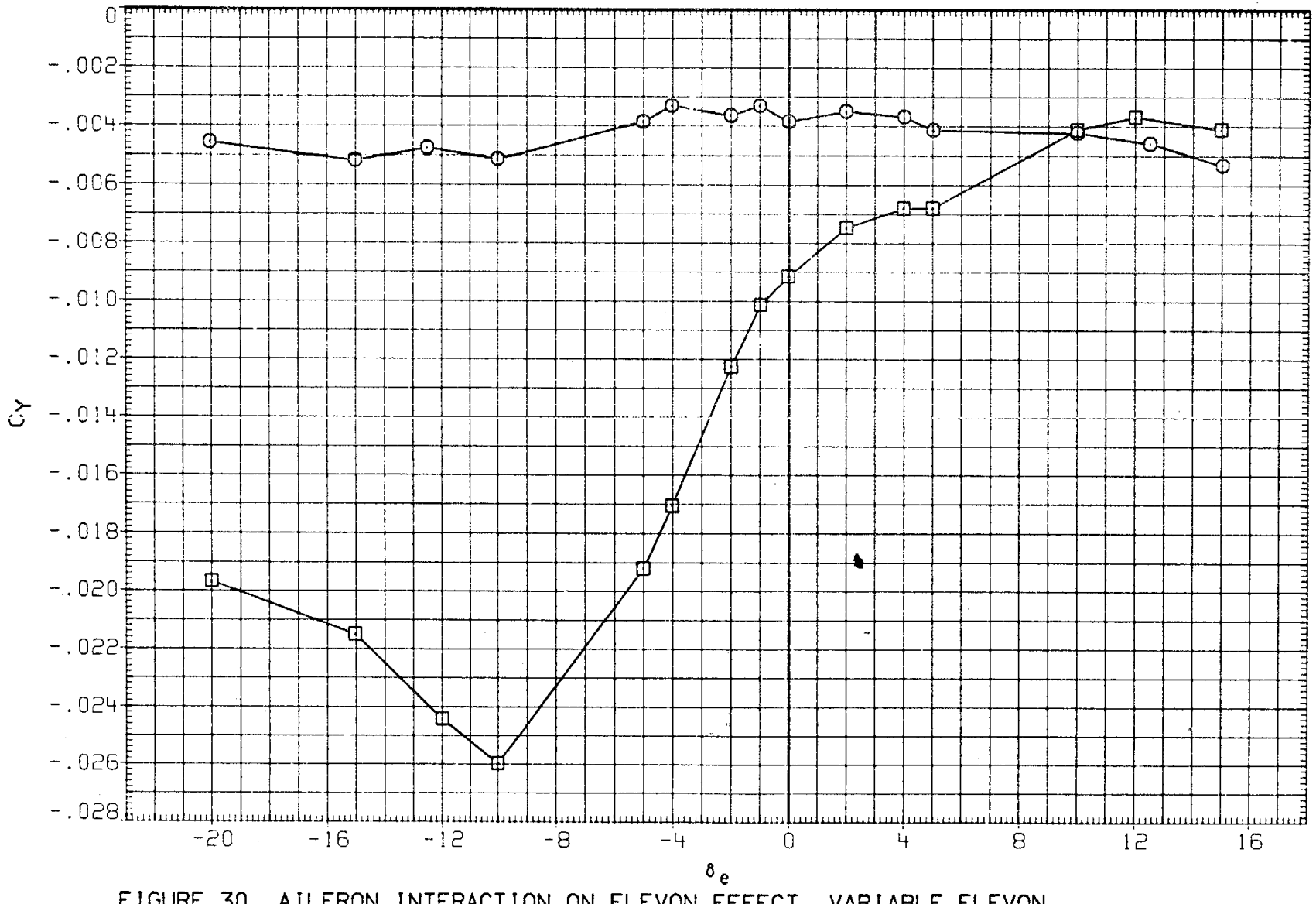

FIGURE 30. AILERON INTERACTION ON ELEVON EFFECT, VARIABLE ELEVON

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN033	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000
RKN037	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	3.000	.000	25.000	.000	.000

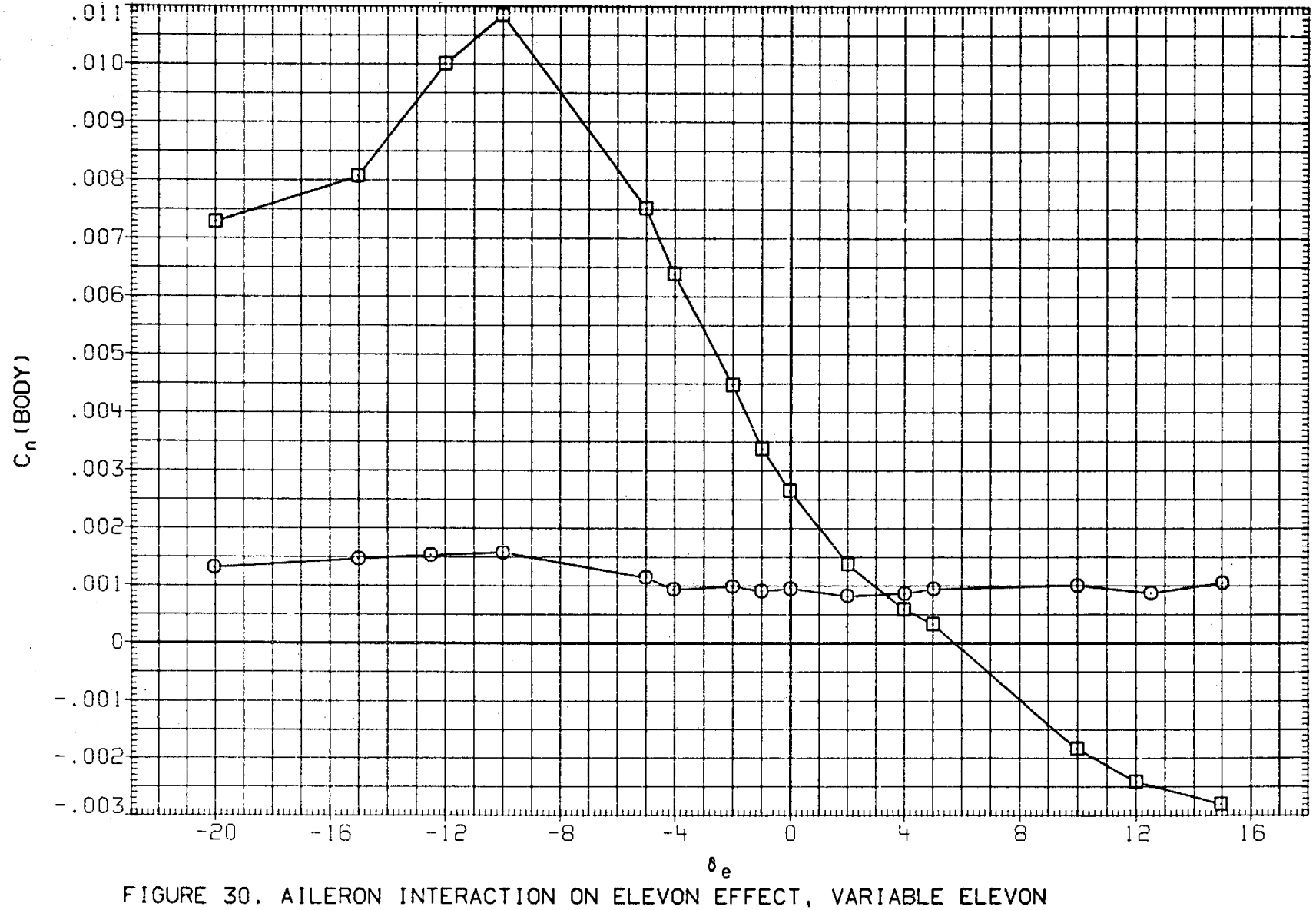

FIGURE 30. AILERON INTERACTION ON ELEVON EFFECT, VARIABLE ELEVON

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN033	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000
RKN037	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	3.000	.000	25.000	.000	.000

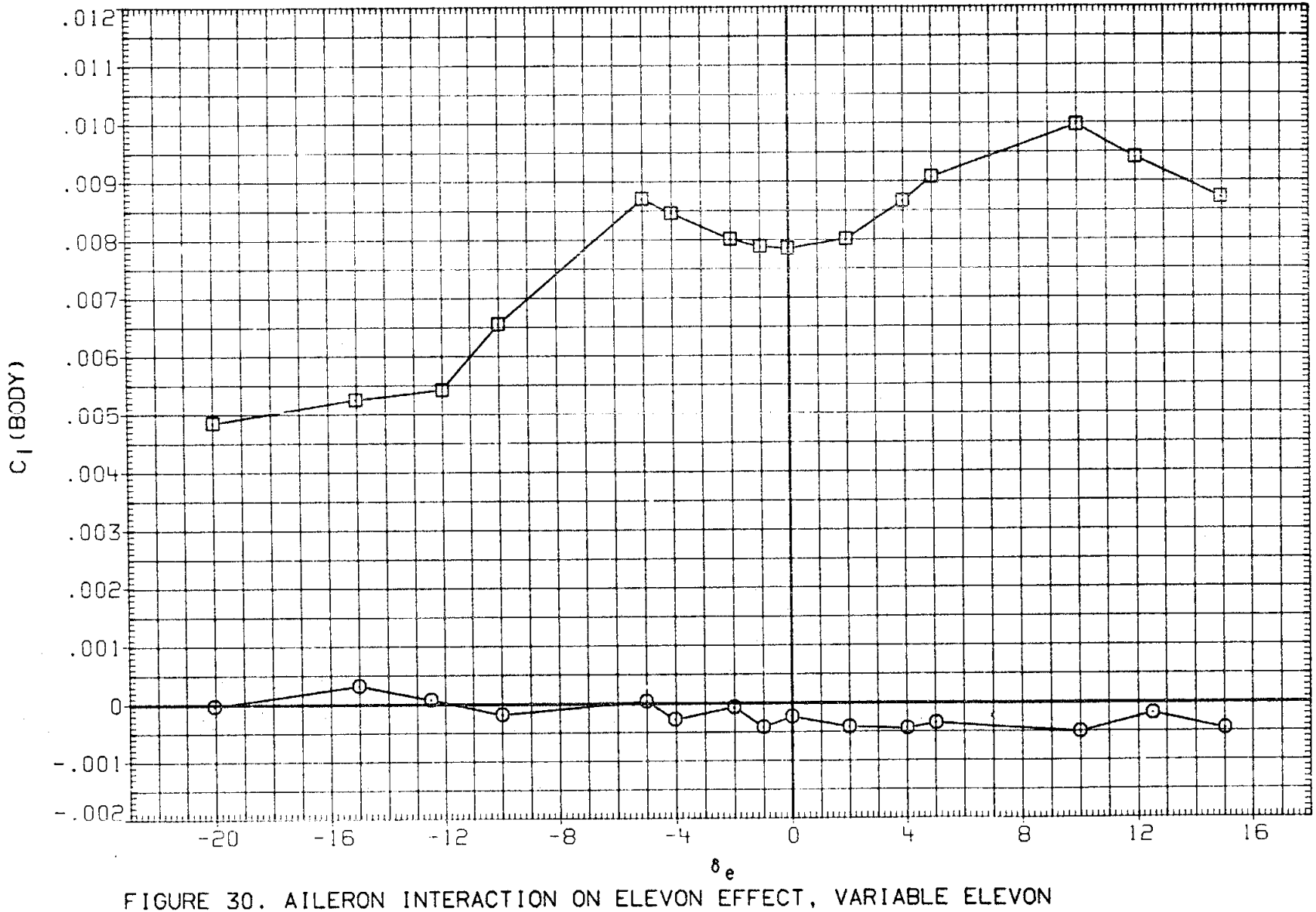

FIGURE 30. AILERON INTERACTION ON ELEVON EFFECT, VARIABLE ELEVON

(G)MACH = 1.10

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN033	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000
RKN037	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	3.000	.000	25.000	.000	.000

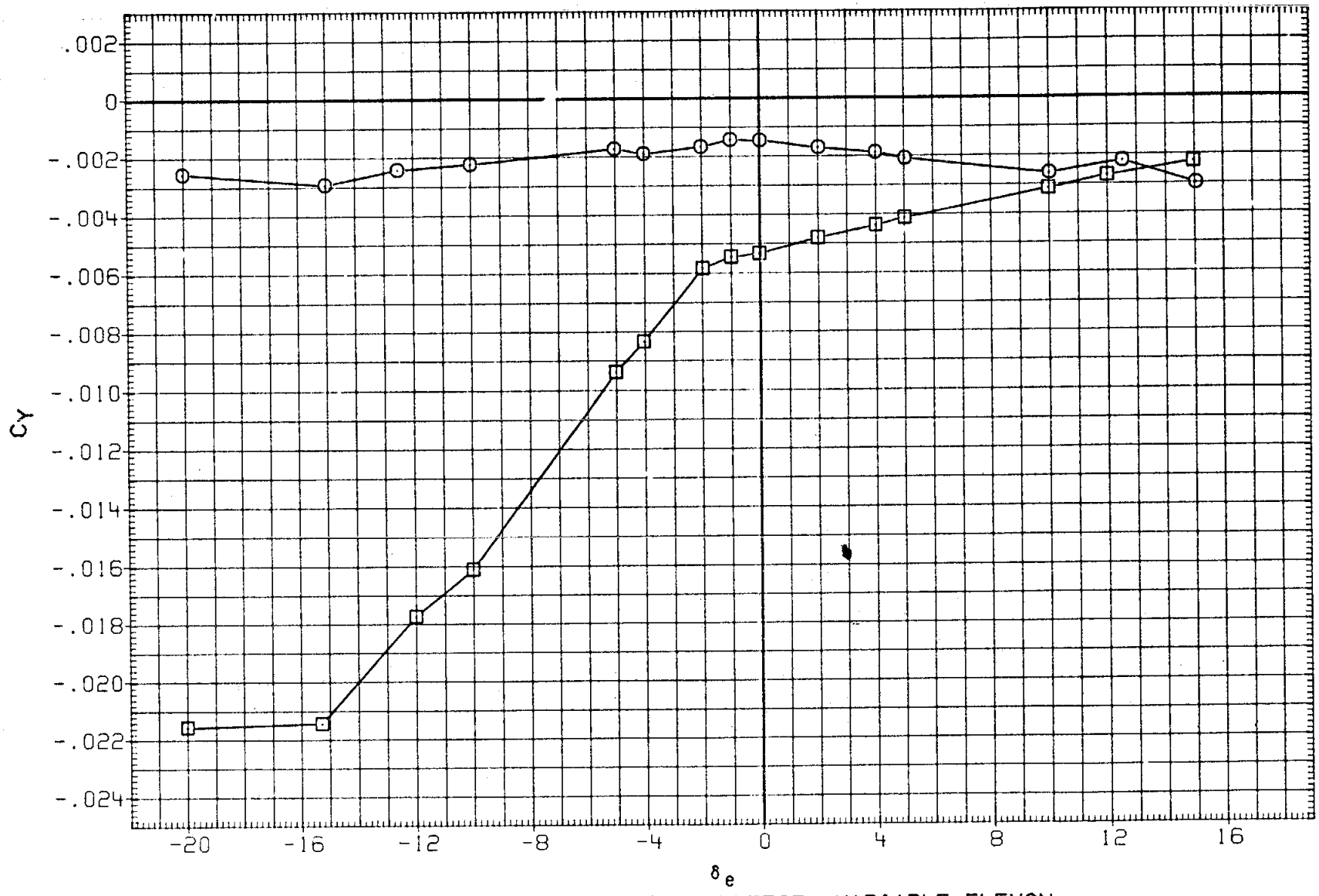

FIGURE 30. AILERON INTERACTION ON ELEVON EFFECT, VARIABLE ELEVON

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN033	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000
RKN037	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	3.000	.000	25.000	.000	.000

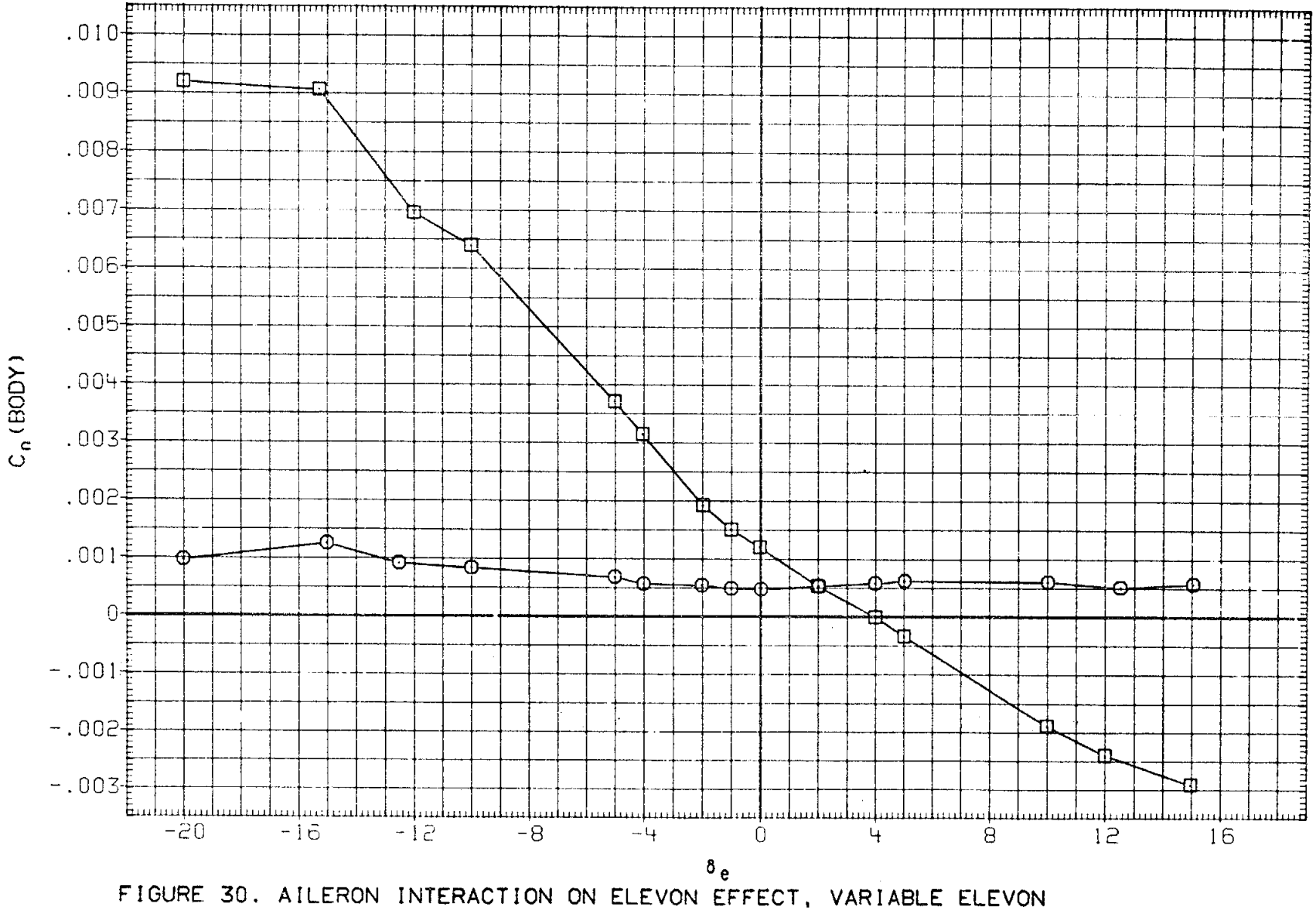

FIGURE 30. AILERON INTERACTION ON ELEVON EFFECT, VARIABLE ELEVON

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN033	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000
RKN037	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	3.000	.000	25.000	.000	.000

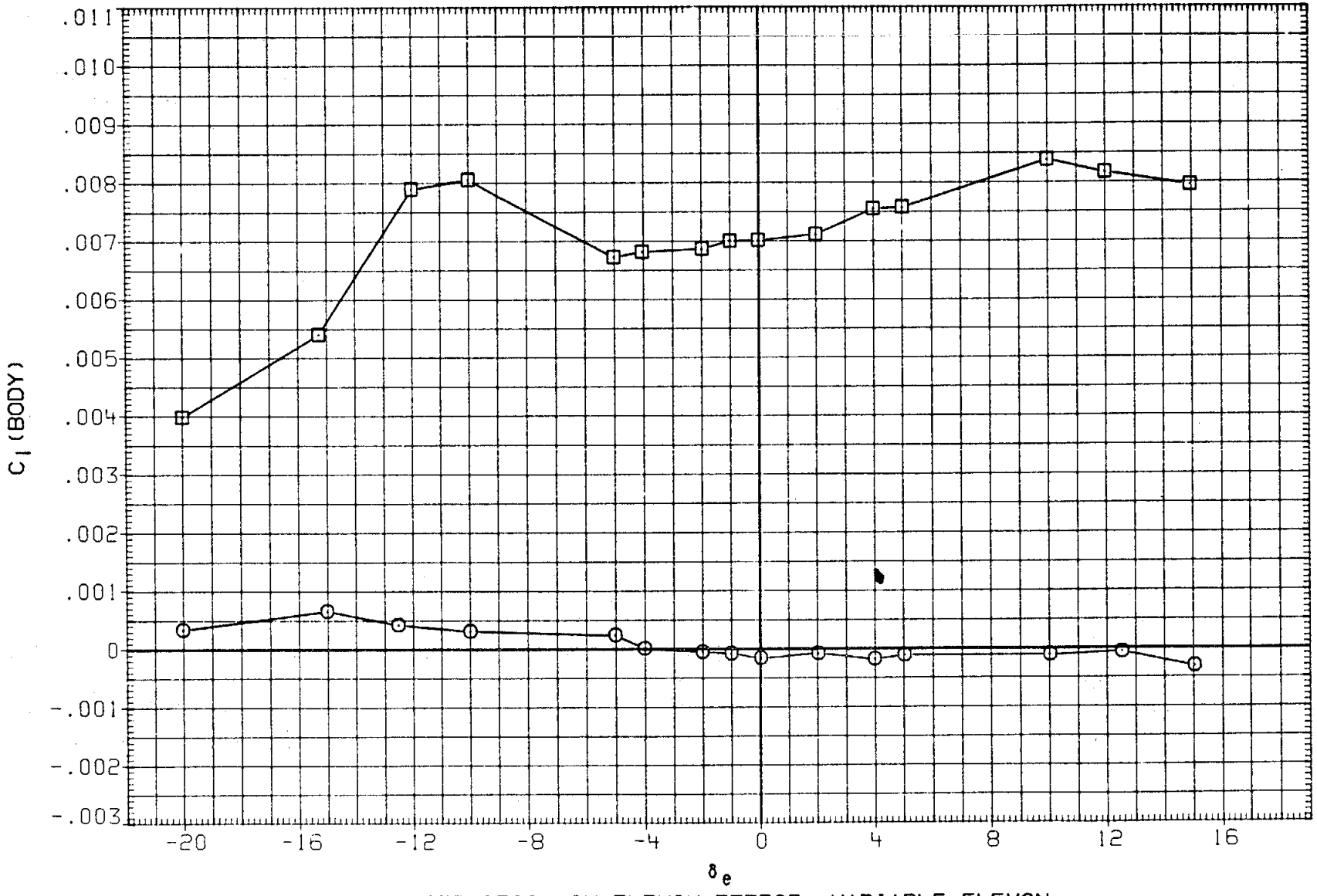

FIGURE 30. AILERON INTERACTION ON ELEVON EFFECT, VARIABLE ELEVON

(H)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN033	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000
RKN037	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	3.000	.000	25.000	.000	.000

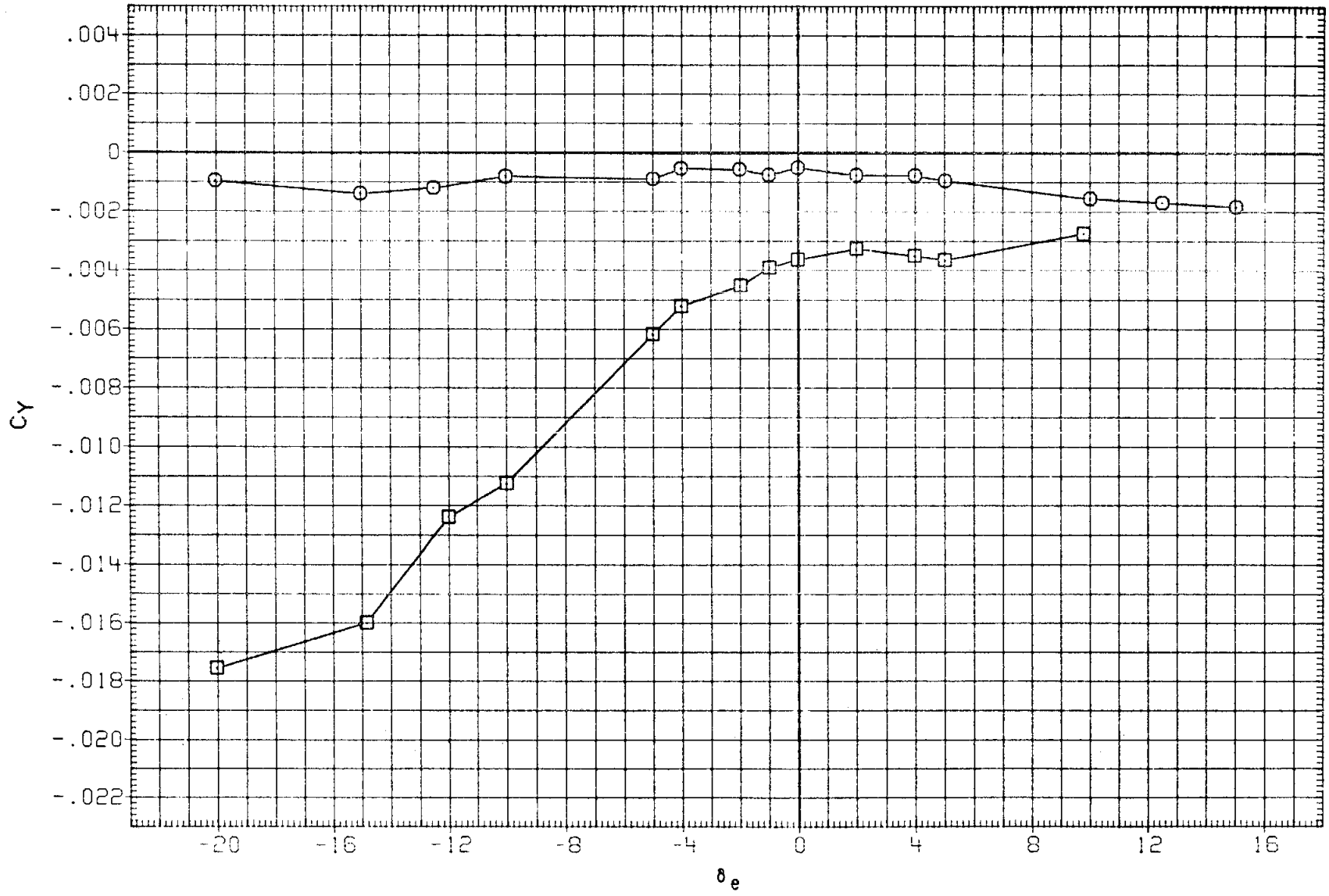

FIGURE 30. AILERON INTERACTION ON ELEVON EFFECT, VARIABLE ELEVON

(I)MACH = 1.27

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN033	○	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000
RKN037	□	LARC 16FT TWT 326(OA270A) 39-0 ORB.	5.000	.000	3.000	.000	25.000	.000	.000

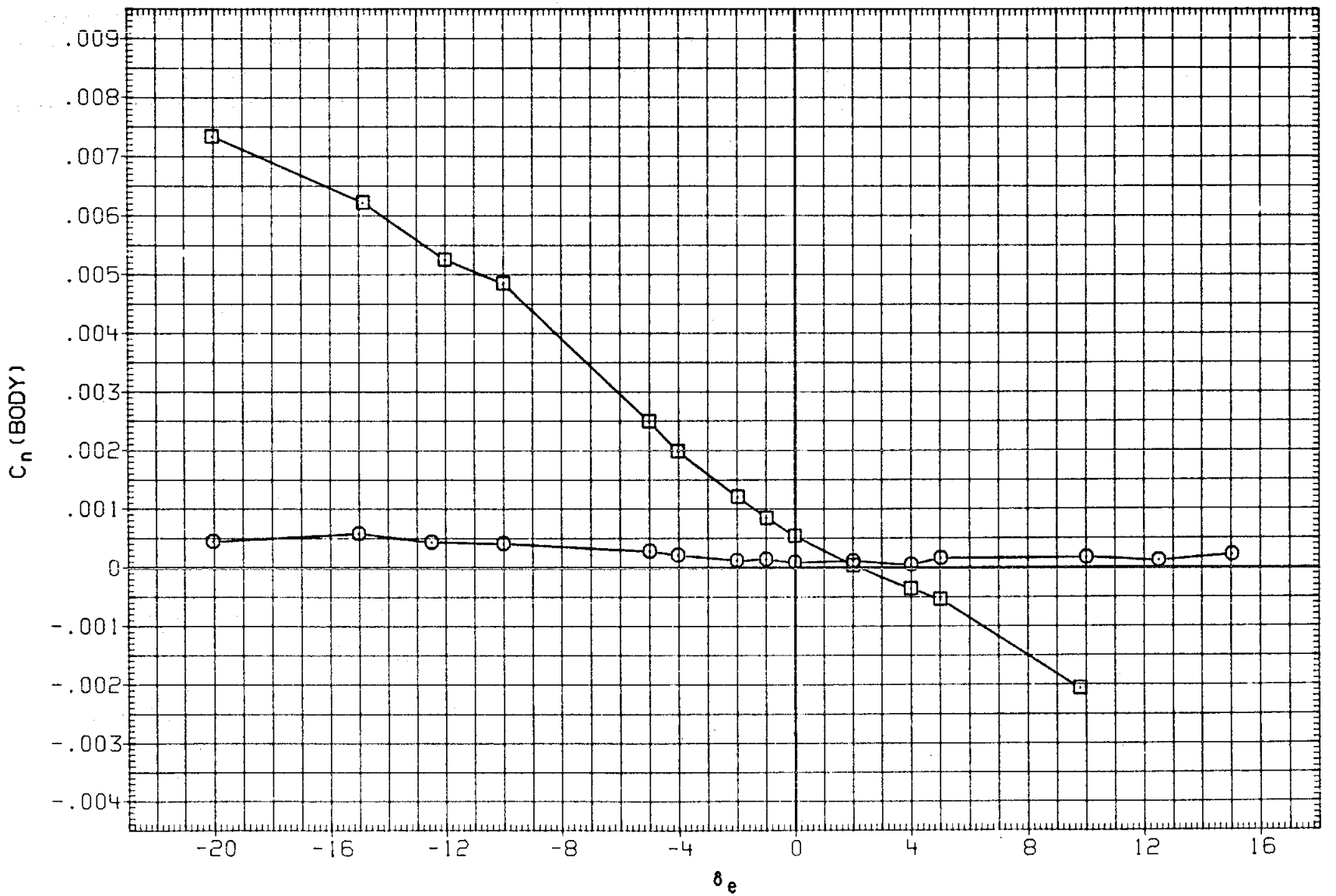

FIGURE 30. AILERON INTERACTION ON ELEVON EFFECT, VARIABLE ELEVON

(I)MACH = 1.27

DATA SET	SYMBOL	CONFIGURATION	ALPHA	BETA	AILRON	BDFLAP	SPDBRK	RUDDER	PHI
RKN033	○	LARC 16FT TWT 326(0A270A) 39-0 ORB.	5.000	.000	.000	.000	25.000	.000	.000
RKN037	□	LARC 16FT TWT 326(0A270A) 39-0 ORB.	5.000	.000	3.000	.000	25.000	.000	.000

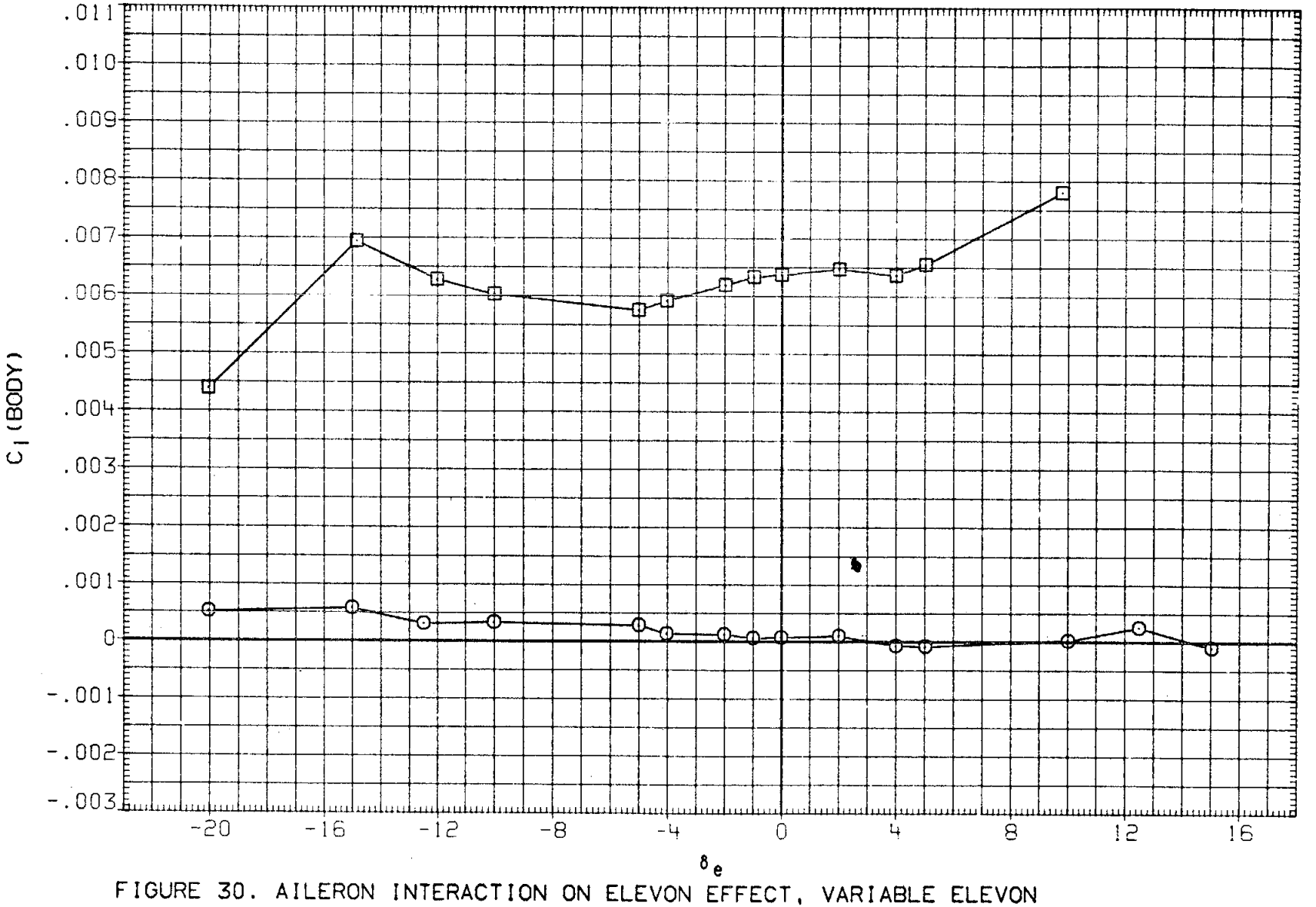

FIGURE 30. AILERON INTERACTION ON ELEVON EFFECT, VARIABLE ELEVON

(I)MACH = 1.27